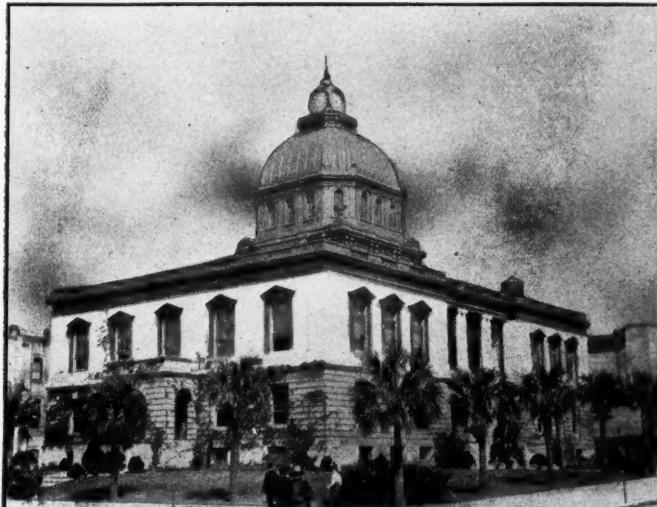


# Municipal Journal And Engineer

VOLUME XXIV.

NEW YORK, APRIL 29, 1908.

No. 18.



CITY HALL, JACKSONVILLE

## JACKSONVILLE AND ST. AUGUSTINE

City Government of Jacksonville—Water Works—Coal Substituted for Fuel Oil—Municipal Electric Plant—  
St. Augustine a Tourist Resort

THE city government of Jacksonville, Fla., is somewhat unique in that it combines the commission form of control but with department heads. About fifteen years ago, when the city was floating a large amount of bonds, a commission was appointed to look after the details of handling the issue. This commission, known as the Board of Bond Trustees, consists of nine members, one being elected each year to serve nine years. The Chairman receives \$33 per month but the other members receive no pay. They are elected by the City Council, but the Board has the right of nominating to the Council the new member if it chooses. So far, politics has not entered into the board, which has been composed of well-known professional and business men.

Soon after this board was organized a charter revision placed it in charge of the water works, and following this, at intervals, the municipal light plant, the sewers, the Public Works Department, the Fire and Police Departments and the Board of Health also were placed under their control. It is hinted that certain politicians instigated this increase of the duties of the board, with the idea that it would thereby in some way be discredited with the citizens; but if such is the case their purpose was defeated and there seems to be general satisfaction with the present conduct of the affairs of the city. The

regular city officials are still elected, but as the board appoints all non-elective officials, including the Commission of Public Works, the Mayor and other officials are restricted in their powers to the passing of ordinances and similar functions.

The water works is under the control of R. N. Ellis as Superintendent, who had charge of the building of the original plant twenty-eight years ago, and has been connected with it ever since, excepting a two-year interval. He is also Superintendent of the Sewer and Electric Departments.

*Water Works.*—Originally the source of water supply was the St. John's River, and the water was filtered. About thirteen years ago, however, the city changed to an artesian well supply and now obtains about five and a half million gallons per day from seven flowing wells. This water as it comes from the ground is strongly impregnated with sulphureted hydrogen gas; but by aerating it in basins, this gas, with the resulting taste and odor, is entirely removed.



AERATING BASIN, JACKSONVILLE WATER WORKS

The grounds around the pumping station are maintained as a park, which contains, among other features, a pond inhabited by many varieties of fish and numerous tame alligators, the latter of which prove an attraction to visitors and have been trained to recognize their names and come when called. The electric power station also is located in this park.

The pumping station contains two 200-horsepower and one 300-horsepower Babcock and Wilcox water tube boilers. A new eight million-gallon triple expansion Prescott pump has just been added to the two five-million Worthington pumps, at an expenditure, including alterations, etc., of \$20,000. About \$80,000 has also been spent in recent extensions of the distribution system,



PET ALLIGATOR, JOE; JACKSONVILLE WATER WORKS

now containing about sixty miles of mains, which supplies about 5,376 services. About 60 per cent. of the services are metered, the minimum rate of charge being 8 cents per 100 cubic feet. Crown, Nash, Lambert and Trident disk meters are used. The average daily consumption is about three million gallons, or 67.29 gallons per inhabitant per day. Water is pumped direct and also to a 250,000-gallon standpipe. The normal pressure is about 60 pounds, but in case of fire the standpipe is cut out and the pressure run up to 110 pounds.

Until November 26, 1906, oil had been used as fuel. But the railroad which had been supplying this from Tampa was at that time unable to deliver any oil for more than two weeks, owing to a freight yard congestion; and as the price of oil at the same time was raised from 94c. to \$1.17½ per barrel, it was decided to use coal instead, and all the boilers were at once changed to burn anthracite, and No. 2 and No. 3 have been used



GENERAL VIEW OF JACKSONVILLE WATER WORKS

since, costing at present \$3.61 per gross ton. (The cost was \$2.56½ per net ton a year ago.)

The cost of the water works plant has been about \$560,000. In 1906 the receipts from commercial service were \$67,120.64; from the city for hydrants, \$17,840, and for other services, \$2,901.43; from tapping and miscellaneous, \$5,623.66, the cost of tapping being \$400.02, less than the receipts therefrom. The expenditures for superintendence and office were \$5,833.53; for pumping, \$12,861.65; for other maintenance expenses, \$20,879.71.

The net profit was therefore \$53,910.84, or about 10 per cent. of the cost of the plant. Of this, \$22,678.34 was laid out in extensions and the balance turned over to the city. During the last ten years the revenues have increased fourfold, while the operating expenses have only doubled.

*Municipal Electric Plant.*—Some years ago the city decided to put in a municipal lighting plant to furnish light for both municipal and private use, and such plant was built in 1895 at a cost of \$76,675.99. At that time a corporation had a franchise for both lighting and traction purposes, and competed with the city. When this company applied for an extension of its charter the city granted it with the stipulation that the company pay into the city treasury 20 per cent. of its gross receipts from lighting and power service, in consequence of which the company has not been renewing its contracts. The city charges \$7.50 per month for all-night 2,000-candle-power arcs, and 7c. per kilowatt hour for all incandescent lighting purposes, and from 7c. to 3c. for power service, the city paying the same rates as private consumers. It is now replacing many of its open arc lights with magnetite lamps, and is using a new style of oil immersed mercury converters.

The lighting plant contains several Babcock and Wilcox boilers, two of 500 horsepower, four of 350 horsepower, and one of 250 horsepower. The motive power was originally reciprocating engines belted to generators, but this has been changed gradually to direct connected steam turbines. At present there is one Filer-Stowell 750-horsepower cross compound engine, three 200-kilowatt De Lavall turbines, two 500-kilowatt Allis-Chalmers turbines, and one 500-kilowatt Curtis turbine. The contract has been let for a 1,500-kilowatt Allis-Chalmers turbine of the Parsons type, and one 300-kilowatt motor generator.

The plant and system have been continually extended and have cost about \$490,000. The receipts in 1906 from commercial service was \$184,798.24, and from the city, \$38,003.90; miscellaneous, \$882.15. The expenditures for superintendence and office were \$8,444.16; power station, \$71,407.79; lines and service, \$27,182.37; miscellaneous, \$5,930.80. The net profit was \$110,719.17, or more than 26 per cent. of the cost. Of this, \$60,128.48 was spent on extensions. In the last seven years the revenues have increased nearly eightfold and the operating expenses a little over fourfold.

*Other Departments.*—Part of the city is sewered on the combined system and part on the separate system. There are altogether sixty miles of sewers with outlets into nearby streams. Part of the sewage is raised at three points by means of automatic electrically-driven centrifugal pumps. The sewer system has cost about \$420,000.

There has been much trouble from leaky joints in house connections and at the junctions of these with the sewers, and since January 1, 1906, the Board has laid all these connections from the sewer to the inside of the curb line.

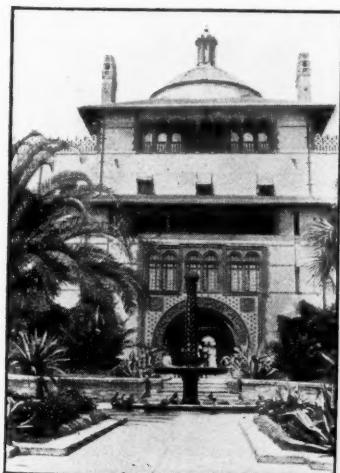
The Fire Department contains two engines, two trucks, two combination hose and chemical wagons, four ordinary hose wagons, and a chief's buggy in active service; while in reserve there are several two-horse hose wagons, hook and ladder truck, etc. These are housed in five stations. The engines are not often necessary, as the water pumping plant can furnish sufficient pressure for ordinary fires. The fire alarm telegraph system contains about 100 boxes. The Police Department contains 66 officers and men. The stations and land cost about \$41,000, and the police alarm system about \$11,000.

The city owns its own wagons and mules and has about 100 men in the employment of the sanitary department. All paved streets are cleaned every night. Studebaker sprinklers and Hvaas sweepers are used. Garbage and house refuse is collected every day and dumped on low lots, where it is covered with cinders and sand. A Dixon crematory is used for the disposition of dead animals and night soil.

#### ST. AUGUSTINE

This city is essentially a tourists' resort, and, like others of this character, is affected in many of its public functions by the conditions resulting from this. Its beauty and attractiveness are attributed by Mayor Masters largely to Henry M. Flagler and his East Coast Company, their broadcast advertising having also stimulated travel to it. They have created thriving business cities, given employment to thousands of residents of the State, and made accessible to the entire country natural beauties and climate which have contributed so much health and pleasure to visitors.

St. Augustine has a fixed population of between six and seven thousand, but during the tourist season this is swelled to between fifteen and twenty thousand, the increase being cared for by many hotels and cottages, the most noted of which are the Ponce de Leon and the Alcazar. These together provide for about 1,400 at one time, and the rest patronize scores of smaller hotels and boarding houses.



COURT OF PONCE DE LEON HOTEL,  
ST. AUGUSTINE



CHURCH, SPANISH ARCHITECTURE

The old town was typically Spanish and the landmarks have been retained as far as possible. Many of the streets



OLDEST HOUSE IN AMERICA (?), ST. AUGUSTINE

are still very narrow, some of them so much so that a person can touch the walls on both sides at once with outstretched hands. As far as possible the Spanish style of architecture is employed in all new buildings, the two large hotels and the court house being excellent illustrations of this. The streets were originally only the sandy soil, but twenty years ago asphalt paving was placed around the Flagler hotels without any expense to the city. These have about worn out, and during the coming summer the city will resurface 12,000 square yards of them. Following after this first pavement, the city extended it until there are now about eight miles of paved streets and fifteen of hard shell roads.

To assist in making the city attractive to tourists the streets are thoroughly cleaned every night with a Hvaas sweeper, being first sprinkled with a Studebaker sprinkler. In addition, they are kept constantly clean in the daytime by the patrol system. Once a week a solution of creocarboline is sprinkled over all streets for disinfecting purposes, to kill any germs or mosquito larvæ.

The water supply here, as in Jacksonville, is drawn from artesian wells and requires aerating to remove the gases. The large hotels have their own water supply and fire protection. The city has four hose companies, a combination hose and chemical wagon, and a truck. The fire pressure on the mains can be run up by the pumps to 110 pounds. The city is said to be very orderly and only six patrolmen are employed on the police force, two being on duty during the day and four at night.

The expense of maintaining so carefully such a large

city with a comparatively small tax-paying population brings the cost to these rather high. Every place of business pays an occupation tax of \$5 on the first \$1,000 worth of business conducted, and \$1 for each additional \$1,000. Saloons pay \$250 per year and hotels according to their capacity.

In the effort to please the tourists no street venders or peddlers are allowed to annoy pedestrians. A plan is now on foot to build a large concrete recreation pier, together with a promenade, band stands, etc., along the beach. Each year the business men of the city contribute about \$5,000 for a celebration which is semi-historic in character, the landing of Ponce de Leon on his discovery of Florida being represented; also the founding of St. Augustine by Menendez in 1565, and commemoration of the five changes of government which St. Augustine has seen.

#### REMOVING IRON FROM GROUND WATER

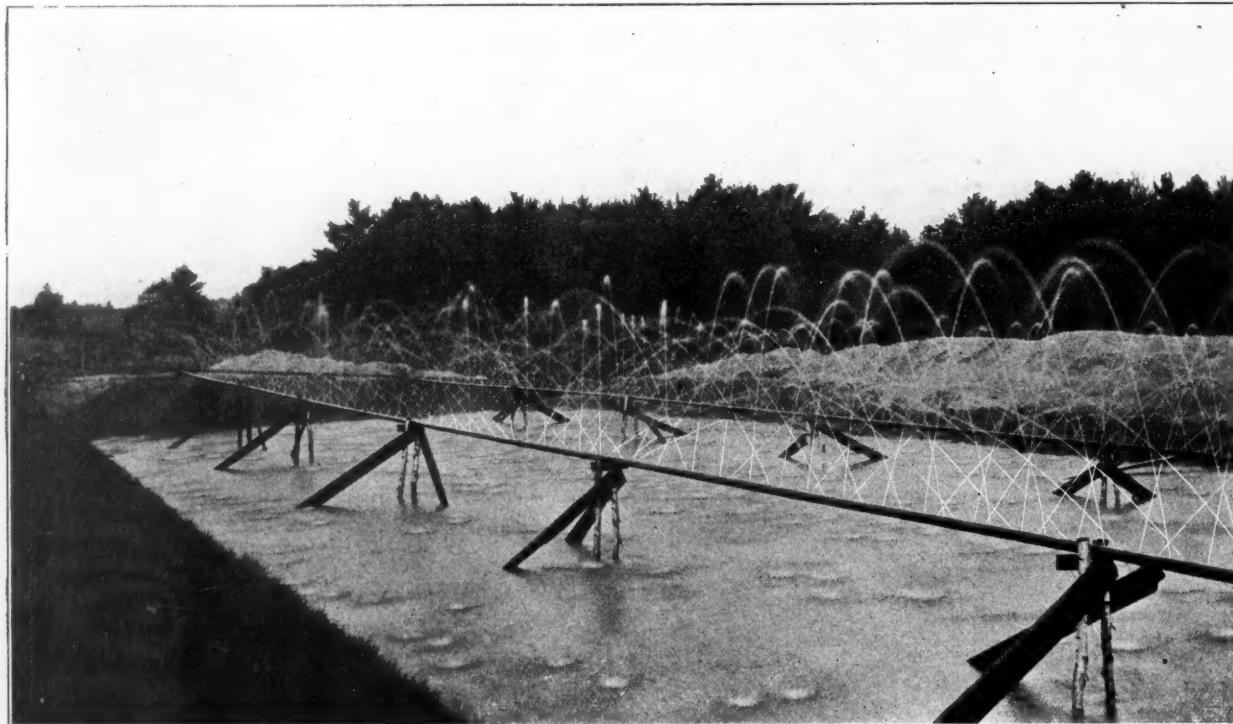
THE city of Dover, N. H., obtains its water supply from several springs located in low ground, just below a sandy ridge, the water being collected in 2,000 feet of 10-inch vitrified sewer pipe laid with open joints from 10 to 12 feet below the surface. On this line are several catch basins for intercepting the sand. The water is conducted through this pipe line to two collecting wells. The water from some of the springs in this vicinity contains a considerable amount of iron, sufficient to make it undesirable for washing white clothes in, and those springs were cut out from the supply for some years. That from the remaining springs became insufficient a year or more ago, and in May of last year several test wells were driven in the ground above the springs. The sand in which these were driven was found to be so fine

that the water could not be obtained to an advantage in this way, and this idea was abandoned.

It was then decided to use water from the springs which contained iron and endeavor to remove the iron from it as far as possible. The ordinary method of accomplishing this is by aeration, which renders the iron insoluble, followed by removal of the precipitant by filtration. The apparatus ordinarily employed for this is rather expensive, and, under the advice and direction of William S. Johnson as consulting engineer, the apparatus described herewith was built, intended to serve as a temporary affair only, to permit the immediate increase of the supply.

The sod and loam were removed from a plot of ground about 400 by 150 feet, situated 400 feet above the springs from which the acceptable water was obtained, thus exposing a sandy soil, whose elevation was 27 feet higher than the vitrified collecting pipe line. The iron-bearing water was pumped to the filter bed through 400 feet of 4-inch pipe, which, at the bed, was connected to two lines of 2½-inch pipe, in the top of which were drilled  $\frac{1}{8}$ -inch holes in four lines. The pressure from the pump forced the water through these about 10 feet into the air, and as it fell onto the sand bed in the form of spray it absorbed the desired oxygen. Passing down through the sand, the water was filtered and found its way to the springs which were being utilized, and from them to the collecting line.

The superintendent states that they undoubtedly lose a part of the water which is pumped, but analyses appear to indicate that 95 per cent. of the iron has been removed from that collected, and the plant may, therefore, be said to be to this extent a success. The intention to consider this as a temporary plant only is indicated by the general construction shown in the cut.



TEMPORARY IRON-REMOVING FILTER AT DOVER, N. H.

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Readers are invited to contribute to the MUNICIPAL JOURNAL AND ENGINEER, either in the form of special articles or of letters discussing matters of current interest.

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APRIL 29, 1908.

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#### State Regulation of Stream Pollution

THE laws in force in the several States governing the discharge of sewage into streams were fully set forth in our issues of October 3 and 10, 1906. Pennsylvania was therein shown to be one of eight States which had "adopted unusual and stringent methods to enforce the right of their citizens to unpolluted natural waters. Many municipalities of that State believed, however, and some still believe, that the requirements of these laws would not be enforced. The city of Easton was directed to make a beginning toward purifying its sewage before building any more house sewers, but the voters recently refused to authorize a bond issue for this purpose. Mc-

Keesport's Council last year voted the awarding of contracts for two new combined sewers, but the Mayor held the matter up pending a request to the State Board of Health for permission. Such permission has now been refused, and the city has been directed to have a sewage disposal plant in operation by July 1 of next year. It will probably not be many months, therefore, before the determination and legal power of this Board will be put to a test. On March 26 of this year, Ohio joined the eight States above referred to, passing a law similar in many respects to that of Pennsylvania. If the progress along these lines during the last five years is duplicated during the next five, not even England will surpass this country in its sanitary protection of streams.

#### SEATTLE REFUSE DESTRUCTOR

The First Destructor of English Design to Be Erected and Put in Operation in the United States—  
In Service Since January

By W. F. MORSE

IN 1896 Reginald H. Thomson, City Engineer of Seattle, Wash., was instructed to visit American and foreign cities and examine their methods of sewage disposal, and those used for the collection and disposal of refuse and garbage, together with the cost of maintenance, with a view to the adoption in Seattle of plans for these purposes. He undertook an extended journey, visiting the chief refuse disposal plants in the United States, and spending nearly four months investigating the systems of disposal in use in British and European cities.

The largest destructor plant inspected was that at Hamburg, comprising 36 cells arranged in groups of six, and altogether having a capacity for the disposal of 300 tons per day. At Glasgow he found the most extensive and thorough arrangements for the collection and disposal of all the city refuse of every character at six different destructor stations. In London he inspected very thoroughly some twelve or thirteen destructor plants of different makes, the largest of which had a capacity of 100 tons per day.

In his report he says: "After mature reflection upon all the information gained, I am clearly of the opinion that the best refuse destructor in service at the present time is that made by Messrs. Meldrum Bros., of Manchester, of the accumulative heat type heretofore described. \* \* \* Under all of the existing circumstances I have unhesitatingly recommended to the City of Seattle the erection of this plant, and have heretofore submitted to your honorable body an estimate of its probable cost."

This report was adopted by the city government and a contract was made with Meldrum Bros., Manchester, England, for a four-grate destructor embodying some special features; the destructor and regenerator only to be built by Meldrum Bros., and the boiler foundation, enclosing building, chimney, approaches and platform to be built by the city. Under this contract the



FRONT VIEW OF DESTRUCTOR, SHOWING SCALES AND DUMP OPENING

iron and a large part of the fire brick were prepared in England and brought by ship to Seattle. Construction of the plant was begun in November, 1907, and finished in January, 1908. The fires were started immediately, and the plant has been in operation from January 27; and after a preliminary trial of thirty days the plant was taken over by the city.

This destructor is of the Meldrum Simplex type known as the "continuous grate" as distinguished from the cell system, which is of single cells or chambers acting in pairs. Photographs herewith give a clear idea of the exterior of the house, both front and rear, and of the front and one end of the destructor. There are two inclined approaches of broad timber planking which lead to the hopper on the front of the house where wagons tip their loads into the receiving bin below. From this receiving bin it is taken and stoked by hand by three men into the four doors of the destructor.

It will be noted that this furnace is a front hand feed, as distinguished from the top charging feed, which is the type of construction at Westmount, Canada, where a destructor of three grates of the Meldrum type has been in operation for two years.

While the furnace has four doors, there is only one grate, although this has an area of 100 square feet, so that in the event of one section being charged with unusually moist or refractory matter this material will have the benefit of the heat generated in the other parts of the furnace. The only divisions in the furnace are below the grate, and these provide separate ash pits, so that when any one portion of the grate is being clinkered and recharged, the remainder of the fire cell is at work, and all the heat and other conditions are unaltered, securing perfect cremation and the continued supply of high temperature gases to the boiler.

The method of supplying heated air for the forced draft blowers does away with the drying platform, which is a feature of many garbage destroyers, and aids the combustion by evaporating the moisture quickly. In the Seattle plant the forced draft of hot air is stimulated by means of steam blowers, which work silently. The

hot air is carried along a conduit below, the air being heated by the waste hot gases from the boiler which generates the steam for the blowers and other purposes. The boiler has a capacity of 220 H.P.

To prevent the occurrence of offensive odors in the containing building, the air for the hot blasts is taken from the building, creating a perfect ventilation, as it completely changes the entire atmosphere of the place four or five times each hour.

The draft of the fire is from right to left (from background to foreground in the illustration), and at the left end and fed from a platform overhead is a hearth for receiving butchers' offal, manure and similar offensive materials containing great quantities of moisture. This falls on the fire brick surface of the hearth and is dried by the heat from the adjoining fire. After it has been dried it is shoved over onto the grate for complete incineration.



RAMP AND REAR VIEW OF DESTRUCTOR

At the further end of the fire chamber, and so placed as to receive all of the hot gases from all the burning materials, is the combustion chamber provided for the destruction of animal carcasses and the final cremation of all vapors. The brick-work of this chamber is maintained in an incandescent state, and the body of a horse or cow can be dropped in and entirely cremated in a couple of hours. In this chamber, also, the major portion of the fine dust carried forward is collected. Doors are provided at each end of the chamber for raking out, periodically, the fine dust.

The temperature of the combustion will vary from 1,700 degrees to 2,200 degrees, this necessarily varying

with the quality of the garbage and the speed with which it is destroyed. The highest temperature ever reached in one of these destroyers was 2,800 degrees, but this heat is not recommended, as it fuses the dust from the fires into a solid mass in the combustion chamber.

The chimney is of reinforced concrete construction 80 feet high. The house, which was built by the city, is of corrugated iron construction, with an adjoining smaller office building which contains the weigh-beam for platform scales which loads coming to the destructor pass over, the weights thus obtained being recorded.

Mr. W. Mortimore, the engineer representing the Meldrum Company, after operating the destructor for almost two months has transferred the control of it to the city, and is now on his way to England. During the last week of his stay the Seattle plant was visited by several delegations and many private individuals from neighboring towns.

Every visitor expressed surprise at the cleanliness of the chimney, which is offered as proof of the perfect combustion that takes place.

The plant is readily disposing of sixty to seventy tons daily, so far the largest day's work having been 68 tons. It does not meet all the requirements of the city—three or four more of similar size being necessary to care for

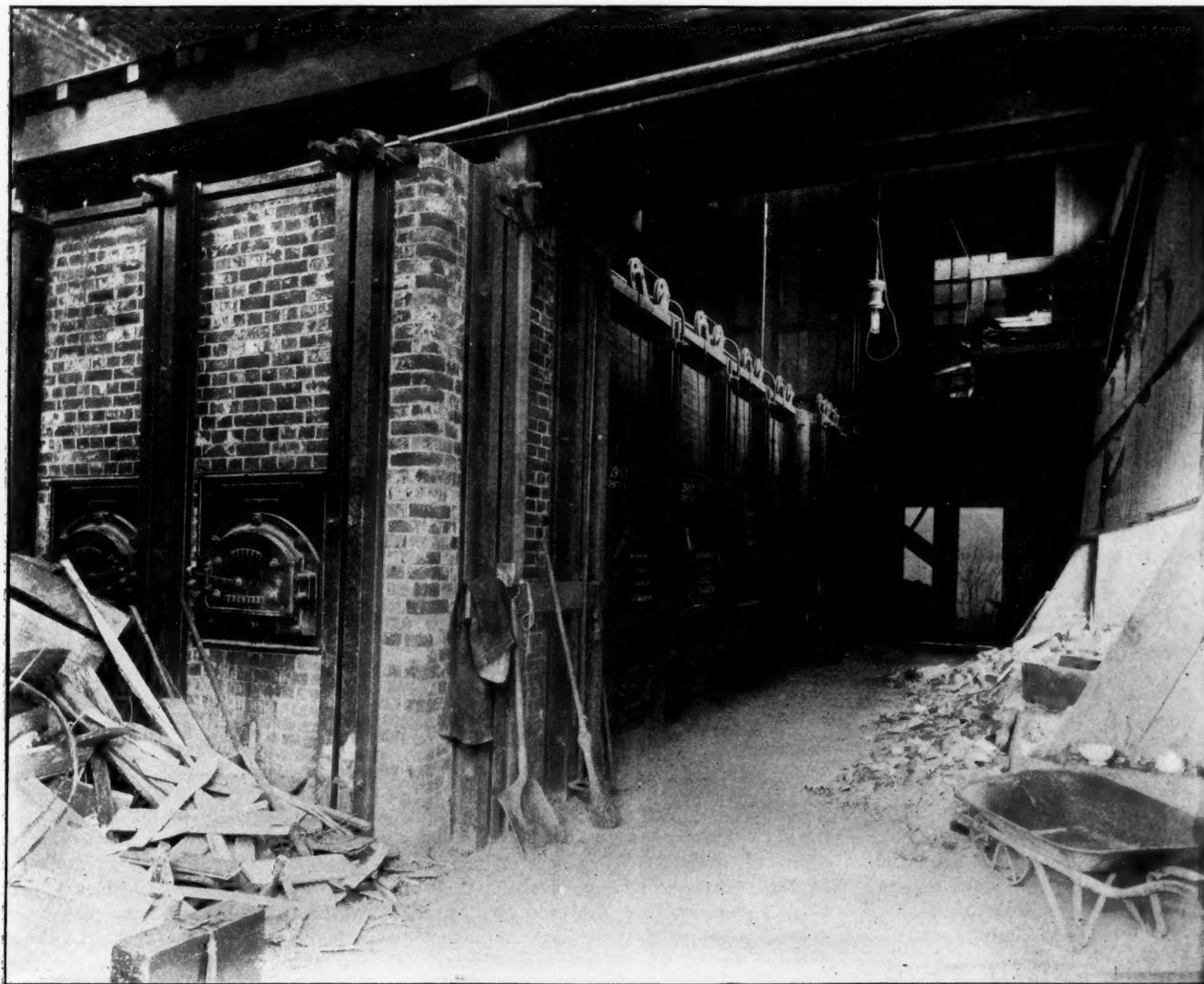
the total refuse collected in the town. These will no doubt be installed later by the city authorities in such locations as to minimize the cartage.

This is the first plant of its kind erected in the United States, and it includes the most up-to-date arrangements of the special ventilating ducts, of the offal hearth for burning very wet material, and the carcass cremation through special charging hole, all of which are entirely new ideas first introduced abroad by the Meldrum Company and included in this installation by request of Mr. Thomson.

The residuum from the destructor, comprising clinker and fine ash, is removed and dumped on low ground adjoining. The clinker is thoroughly burned, free from organic matter. At present no use is made of this.

The collection of the refuse in Seattle is made by a scavenger system, by which licensed private cartmen collect from the households. Heretofore the refuse has been dumped at different points on the tidal flats by the scavengers, and the endeavor has been made to destroy part of it by fire.

At the present time the question before the Council is whether the whole collection and disposal of the refuse shall be done under one general contract or by the establishment of a municipal system of collection.



DESTRUCTOR FURNACE—DRYING FURNACE IN FOREGROUND; OPENING FOR LARGE ANIMALS AT FARTHER END; DUMPED MATERIAL AT RIGHT

## NEWS OF THE MUNICIPALITIES

Divers Subjects of General Interest and Their Treatment by City Councils and Officials—Streets, Water Works, Lighting and Sanitary Matters—Police and Fire Items—Government and Finance

## ROADS AND PAVEMENTS

## Will Fight for Better Concrete Foundations

Buffalo, N. Y.—Alderman James S. Porter has introduced a resolution providing that the Mayor shall appoint a contractor, who is an expert in concrete work, to act with the Commissioner of Public Works and the City Chemist in revising specifications for concrete foundations for pavements. He says there is a notable difference between the concrete under pavements and that under street car tracks, the latter being conspicuously superior.

## Over Million and Quarter Street Improvements

Columbus, O.—The cost of street improvements contracted for and estimated to date foots up to the total of nearly \$1,300,000. Already \$622,000 worth of work has been contracted for. The principal materials to be used will be brick and block. Little or no asphalt will be used owing to the paving scandal last season, and the poor quality of asphalt laid in recent years. The municipal paving plant has secured a good quality of asphalt, according to Superintendent W. W. Horn, and a good deal of repair work will be done.

## Split Log Road Drag Reduces Taxes

Mifflin, Pa.—The Board of Supervisors of Mifflin Township have joined in a communication of commendation to Secretary Gibson, of the Lycoming County Good Road Association, concerning the split log road drag and its achievement upon roads. So pronounced has the benefit already been that Smith Lovell, one of the members of the Township Board, expresses it as his opinion that by next year a four mill reduction can be made on the road tax of the township.

## Troublesome Surplus May Go for Streets

Mount Joy, Pa.—The treasury of the Borough has so much cash on hand that the Council has reduced the tax rate. Even at the reduced rate of four mills there will be more than sufficient to meet the expenses. The Council has decided to make street improvements.

## Practical Solution for a Common Difficulty

Perth Amboy, N. J.—A letter was received by Council from the Standard Bitulithic Company commenting on a petition which had been received from property owners for laying a sewer in Gordon street, where the company holds a paving contract. The company takes the ground that it cannot be compelled to hold back its work, but, as a solution to the difficulty, suggests that it will undertake to build the sewer, and do it properly, for cost plus fifteen per cent.

## Rochester Paving Bill Signed

Rochester, N. Y.—Mayor Edgerton's paving bill, which requires property owners to designate the kind of paving material which they wish to have laid on their street before bids are received, has been signed by Governor Hughes. Further details in regard to this bill were given on page 437 of our issue of April 8.

## Large Sums for Repairing Asphalt

Washington, D. C.—Officials of the Highway Department of the District are preparing lists and estimates of streets and alleys in the city in need of repairs. They figure that during the next three years \$454,000 will be needed for repairs and \$250,000 for resurfacing. Last year \$390,000 was spent for resurfacing—Pennsylvania avenue taking a large portion of it—and \$190,000 in repairing old surfaces.

## Rock Salt Used in Macadam Roads

Newberry, Pa.—A novel way of making a road has been suggested and will probably be used in the construction of two roads. This is the use of rock salt, which is thoroughly mixed with a lot of fine stone screenings and then spread over the cinder base very thickly. The salt is said to keep the screenings in a moist condition and will keep them intact no matter how much travel is done on the road. This plan has been followed in Sunbury and has resulted in making a driveway as smooth as cement.

## SEWERAGE AND SANITATION

## Report of Year's Work with Tuberculin Test

Bangor, Me.—The report of the Board of Health, made by Dr. George L. Hilton, gives a record of tuberculin tests which were made for the first time during the past year. Altogether 90 herds of cattle were tested, comprising 937 animals. Of these, 904 were found to be sound and 33 diseased.

## Organization to Protect Lake Waters

Chicago, Ill.—At a meeting of representatives from the cities and towns bordering on Lake Michigan, held for the purpose of preventing the contamination of the lake with sewage, a permanent committee was organized, consisting of Mayor S. M. Becker, of Milwaukee, Wis., Chairman; Dr. A. W. Evans, Health Commissioner of Chicago, and W. H. Manns, representing the Chicago Association of Commerce. In addition to these officers, there will be two members from each State bordering on the lake. All present declared that the contamination of the lake had become a menace to the cities and that the problem must be settled immediately.

## Sanitary Improvements to Be Assessed

Geneva, N. Y.—At the suggestion of City Attorney O'Brien, who submitted a lengthy communication dealing with the duties and powers of the Board of Health, a new method of procedure in dealing with alleged nuisances has been adopted. Now a regular trial will be held by the Board, and if the thing complained of is held to be a nuisance, the property owner will be ordered to abate it. If this is not done, the Board will do the work and assess the cost against the property owner.

## Disposal Plant First, then Sewers

McKeesport, Pa.—A sensation was created at a meeting of the City Council recently when, contrary to information received unofficially, permission was refused the city by the State Board of Health for the construction of sanitary sewers emptying into the Youghiogheny and Monongahela rivers. Moreover, the city is ordered to submit to the Board of Health by June, 1909, plans for a sewage disposal plant. Storm sewers, in the mean time, may be built.

## State Regulations Regarding Contagious Diseases

York, Pa.—Organization of the new sanitary committee of the City Council was completed with the appointment of subcommittees, to whom will be delegated special matters for investigation. The committee took important action concerning the manner of placarding houses where infectious or contagious diseases exist. It was decided to adopt the State Health Commission method, which requires that measles, whooping cough, chickenpox and mumps, some of the regulation ills of children, take the placard. It also requires placards upon houses in which typhoid fever exists.

**Definite Plans for Passaic Sewer**

Newark, N. J.—The report of the Passaic Valley Sewerage Commission places the cost of the trunk sewer at \$12,250,000. The sewer is calculated to carry a daily average flow of 360,000,000 gallons. The cost is estimated at \$1.17 per \$1,000 of valuation of the district in 1912. Accompanying the report is the formal notice that the twenty municipalities affected will have 90 days in which to signify their intention of entering the scheme.

**Difficulty in Enforcing Milk Ordinances**

Rochester, N. Y.—In his report submitted to Commissioner Owen, Health Officer Goler says that his department is still confronted with the fact that for months a number of milk dealers have been selling milk in violation of the health ordinance, which says no person shall carry on the business of peddling milk without a license from the Health Bureau. Dr. Goler declares that some of the offenders have been presented in Police Court and have been discharged on technicalities or their cases postponed. The report continues:

In one case a notorious dealer selling milk from one of the filthiest places in Rochester has been permitted to sell milk because our legal machinery is insufficient to prevent it. In another case a man upon whose route eighteen cases of typhoid fever had been discovered still sells milk, and we appear powerless to prevent him. Even though the retailers had been prevented from selling milk, the wholesaler collected milk two or three times a week and sent it into Rochester.

**St. Louis Dairies Under New System**

St. Louis, Mo.—The third report on the cleanliness of St. Louis dairies, recently received by Assistant Health Commissioner Winn, is under the score card system recently adopted by the United States Agricultural Department. The average percentage of all the dairies under the system was 54 per cent. clean. Few registered over 75 and many fell below 50. A few dropped below 35 per cent. clean, but none attained 90 per cent.

**Open Sewers to Be Abolished**

Seattle, Wash.—All the open sewers now flowing into the Puget Sound along the city's water front will be piped and the outfall made to extend into the water below low tide, according to a statement by Health Commissioner J. E. Crichton. In this work, the Northern Pacific Railroad and the general fund of the city will share the expenses.

**Government Aid Against "Water Poisoning"**

Washington, D. C.—President Roosevelt has received a letter from Edward Hatch, Jr., chairman of the New York Merchants' Association Pollution Committee, requesting the President's support of the efforts being made by the association and others to prevent "water poisoning." Mr. Hatch thinks that a few words of encouragement and suggestion from the President would serve to dispel the apathy and give an impetus to the movement for pure water. As the Federal government safeguards the health of the people by quarantine regulations, Mr. Hatch says it should also look after their general welfare in protecting them from the effects of sewage pollution in lakes and rivers. He mentions that 35,000 lives are lost annually by typhoid fever out of a total of 350,000 cases.

**WATER SUPPLY****Water Department Praised**

Memphis, Tenn.—A complete report of the workings of the city Water Department from the time of its purchase by the city in 1902 up to the present was read before the City Club from a committee that had spent a month in investigating. Municipal management has been successful in reducing the charges to consumers more than 30 per cent. The average daily consumption is 14,000,000 gallons, although the sum invested is only \$2,902,000. The report states that eternal vigilance must be the price of continued success, and that good men, when found, must be kept in office, regardless of politics.

**Water Receipts Decrease**

Cincinnati, O.—receipts from water rents during the first two months of the present year show a great decrease from the receipts for the corresponding period of the previous year. This is due largely to decreased consumption on the part of large consumers, notably breweries and laundries. The receipts from twenty-eight large consumers in the First district decreased from \$7,865 in January, 1907, to \$4,724 in January, 1908. The use of filtered water has also decreased the consumption. Less water is used in washing out filters and boilers in laundries and in many large steam plants.

**Citizens Vote to Purchase Water Plant**

Franklin, Pa.—The citizens, as a special election, voted two to one to bond the city for \$260,000 to purchase the water works of the town from the Venango Water Company, this sum having been agreed on. The city will assume ownership of the plant and property on June 27.

**Water Company's Inducement to New Customers**

Lexington, Ky.—Following a warning against the use of well and cistern water, Mayor Skain wrote to the Lexington Hydraulic and Manufacturing Company, asking that a reduction be made in the charge for making water connections in order to encourage the use of good water. The company responded by making a reduction of \$5 for each connection made before June 1; actual cost has heretofore been charged.

**Newport Water Works Pumping Station Burned**

Newport, Ky.—The Newport, Ky., water works pumping station was totally destroyed by fire April 12, entailing an estimated loss of \$60,000. The station is located in an isolated spot above Newport, on the banks of the Ohio river, and at the beginning of the fire telephone wires were broken and it was impossible even to ask for aid. The fire originated in the boiler room, but the cause is not known. Superintendent William Glazier says that a better plant will be built in its place at a cost probably of \$100,000, the City Council having before it such an ordinance.

**STREET LIGHTING AND ELECTRIC POWER****Niagara Power Costs Too Much**

Buffalo, N. Y.—The Civic Conference of Buffalo, comprising twenty business men's organizations and other municipal societies, have submitted to the Aldermanic Committee on Lights evidence tending to show that the city is overcharged for electric power transmitted from Niagara. It is alleged that the Niagara Falls Power Company and one of the Canadian companies are owned by practically the same capitalists as well as the transmission companies and the Buffalo General Electric Company which distributes the power. The report also urges the appointment of an Electric Power Commission to investigate Buffalo's needs for a comprehensive conduit system.

**How to Compel Railroads to Light Crossings**

Pekin, Ill.—A controversy with the railroad companies over the lighting of crossings developed on the presentation of the electric company's monthly bill to the city. The city deducted the cost of the lights at crossings and the electric company, after ascertaining that the railroad would not pay, refused to accept the check. Council decided to remove the present crossing lights and notify the delinquent roads that if lights were not placed and paid for the Council would pass an ordinance compelling them to place flagmen at crossings.

**Wires Off Streets Before Paving**

Port Jervis, N. Y.—In his annual message to the Common Council, Mayor Swartwout urges the removal of wires and poles from the streets. The time to remove these obstructions, he said, is before street paving begins. Answering the objection that conduits on Front and Pike streets are too expensive, the Mayor has had estimates made for temporary rear distribution with conduits later on Ball and Sussex streets, where they can be made to give more service and will therefore be proportionately cheaper.

#### Expert Declares Dollar Gas Reasonable

Washington, D. C.—At a resumption of the hearing on the bill to repeal the stock inflation clause of the gas act of 1896, Alexander C. Humphries, President of the Buffalo Gas Company, appeared as an expert for the Washington Gas Light Company. He declared that \$1 a thousand feet was a reasonable price for gas, basing his conclusions on the company's last annual report, from which Prof. Bemis had arrived at the conclusion that 85 cents was a reasonable price. He agreed with Prof. Bemis' conclusion that the candle power of gas might be reduced from the present average of 23 to 18, thereby effecting a saving of five cents per thousand, without appreciable loss to the public, since the efficiency of gas stoves and mantle lamps would not be affected. The committee also reported favorably on the bill to repeal the clause.

#### FIRE AND POLICE

##### Malicious Injury to Fire Hose

Alexandria, Va.—An investigation of the cause of the bursting of a section of hose at a recent fire revealed the fact that sulphuric acid had been used on it. Fire Warden Courtney Acton is of the opinion that the acid was put on the hose with malicious intent.

##### High Pressure System for Joliet

Joliet, Ill.—Realizing the danger of the city from fire, owing to limited water supply in the central district, the Merchants' Association has decided on an agitation for an independent water supply system connected with the river. The scheme is to have mains laid in certain streets and alleys with hydrants at intersections and an electric pumping station on the river. Ten-inch mains are suggested and a fire pressure of 175 pounds. It is believed that \$30,000 will cover the cost.

##### Telephone Company Will Take Charge of Fire Alarm System

North Plainfield, N. J.—Council has voted to make a contract with the New York and New Jersey Telephone Company to maintain the borough fire alarm system for \$275 a year. The company will furnish labor and materials, and keep in repair both the lines and the apparatus at the central station. Previously an electrician had been hired to tend the wires for \$175, and \$100 was paid the telephone company for current alone.

##### Fire Boat for Pittsburg

Pittsburg, Pa.—The subject of fire apparatus along the wharves was the chief topic at a recent meeting of Council. With the additional responsibility of protecting the water front of Allegheny, a fire boat is believed to be necessary. Search was made for plans made some years ago by the James Rees Sons Company, but they could not be found. During the 1907 flood many valuable papers were lost. Mr. Rees thinks the plans may have been lost then.

##### New Fire Department Ordinance

Plainfield, N. J.—An amendment has been passed to the ordinance regulating the Fire Department. Salaries are fixed as follows: Chief Engineer, \$1,100; First Assistant, \$1,080; Captains, \$1,020; drivers, tillermen and hosemen, according to classification, from \$720 to \$960. Call men hereafter must perform 90 per cent. of duty, instead of 75 per cent. as hitherto, at all alarms and will receive \$55 a year.

##### Police Captains Must Have Seen Service

Portland, Ore.—The Civil Service Commission has decided that hereafter no person will be permitted to enter into competition for the position of Captain of Police who has not served at least two years in the Police Department of the city. This action was taken by the Commission for the purpose of eliminating the possibility of any trouble such as happened at the last examination, when Patrick Bruin, who had been a resident of the city but a few months, was one of the successful applicants and was appointed to the position of Captain of Detectives and Inspector of Police.

#### West Side of Cleveland Demands Protection

Cleveland, O.—The West Side has asked for fire protection for its \$33,000,000 worth of perishable property, its several score schools, hospitals, orphan asylums and institutions of many kinds. The demand is based upon the present inadequate facilities for fighting fire, a population estimated at 200,000 being supplied with only seven engine companies. If these engine companies are sent to the East Side, as many of them are every time a second alarm is turned in from the East Side, the entire business section in the neighborhood of West Twenty-fifth street is placed in jeopardy, the outlying sections, out Detroit and Lorain avenues, and in Brooklyn, are in danger of extinction. Dozens of school buildings are thus put in peril and the lives of 24,000 school children attending them are placed in jeopardy.

#### City Water Works for Fire Protection Only

San Antonio, Tex.—As soon as finances will permit, the city will build a water works for fire protection for the hills where the pressure of water supplied by the San Antonio Water Supply Company is insufficient to extinguish a serious fire. While the contract, which expires in 1912, calls for an ordinary pressure of 75 pounds and a fire pressure of 90 pounds, the point of gauging the pressure is at the pumping station of the company. Tests made by the Fire Department at Government Hill show only five pounds pressure. Last August Council passed a resolution requesting the company to erect standpipe for better fire protection, but it seems they had no right under the contract to do so.

#### GOVERNMENT AND FINANCE

##### Boston's Mayor Wants Increase in Power

Boston, Mass.—A bill giving the Mayor of Boston power to consolidate or abolish 44 existing city departments, to create new ones at pleasure, to remove department heads at will and to appoint others without confirmation, has been filed by Mayor Hibbard with the Legislative Committee on Metropolitan Affairs at the State House. This is the last of a series submitted by the Mayor, all asking for the privilege of consolidating or abolishing departments. In the others it was provided that the Finance Commission should assume some responsibility in the matter. Six departments only are excepted from the provisions of the act, the Police Commissioner being the most important. In addition, it is provided that the power shall not extend to the City Clerk, to the Election Department, the Licensing Board, the School Committee and the Schoolhouse Commission.

##### Revenue and Expense in Cambridge

Cambridge, Mass.—Mayor Walter C. Wardwell has received a second report from Harvey S. Chase on his investigations of the financial condition of the city. Tables of receipts and expenditures are presented showing that in 1898, 1899 and 1900 there were excesses in revenues amounting to \$208,724. During the next four years deficiencies appeared amounting to \$152,153. The next year showed a small excess revenue of \$14,303, owing to largely increased collection of taxes. During 1906 and 1907 there was a deficiency of revenue receipts of \$144,949. As one of the remedies for such difficulties, Mr. Chase recommends the publication of monthly auditor's reports, showing revenues and expenses.

##### Limit to Discussions in Council

Columbia, S. C.—Considerable discussion followed the report of the Committee on Rules at the meeting of the new Council. Rule 7, which was specially objected to, was finally retained; it is as follows:

No member shall speak more than twice on the same general question, nor more than once on a previous question, without leave of the Council; nor more than once in any case, until every member choosing to speak shall have spoken; nor shall any member be allowed to speak longer than ten minutes without the unanimous consent of the Council.

**Municipal Amenities**

Murphy, N. C.—Charging too great leniency in enforcing the ordinances, the Town Council has requested Mayor A. S. Hill to resign, "for the good of the town." Hardly sustaining his reputation for being too easy, the Mayor replied with the query, "who vested you with authority to demand my resignation?" He further informs the Council that they have little to show for \$2,300, which they have collected, and he says he does not find any record where they have turned over to the County Treasurer the police fines, as required by law.

**City Ordinances Will Be Codified**

Dallas, Tex.—In accordance with a recommendation of Mayor S. J. Hay, a committee of two Commissioners was appointed to arrange for the codifying of the city ordinances, which have not been revised for ten years.

**Scranton Publishes Its First Auditor's Report**

Scranton, Pa.—The first record in volume form ever sent out from the Comptroller's office has been issued by City Comptroller Edward Eisele. Besides giving the appropriations and expenditures of the various departments in detail, a comparison of salaries paid out in the various departments from 1902 is made. In order to insure accuracy, the proofs were read six times before the type went to press.

**REFUSE COLLECTION AND DISPOSAL****Campaign Against Flies**

Birmingham, Ala.—Mayor George B. Ward, in conjunction with the Street Cleaning Department, has inaugurated a campaign against flies. Persons keeping horses will be required to provide fly-tight boxes in which to keep the refuse of their stables. Householders will be required to keep garbage in tight cans. A number of persons have been fined for violation of these rules and hereafter the amount of the fine will be increased.

**Erie Investigating Garbage Problem**

Erie, Pa.—Council has passed unanimously a resolution introduced by Mr. Lynch providing for the appointment of two from Common Council, one from Select and the Health Officer to thoroughly investigate the existing system of garbage collection in the city; to figure on the cost of a garbage disposal plant, and to visit Cleveland to inspect the new plant just completed there. This matter has been before councils in one form or another for years past.

**City Standpipes Burst**

Malden, Mass.—Between the hours of 12 and 5 A. M. on April 17, 50 of the 140 standpipes used for watering carts burst on account of having been frozen and the streets in the vicinity were flooded. Similar trouble was experienced in Melrose, where forty, and in Everett where thirty pipes burst.

**New Regulations Not Criticised**

Newark, N. J.—When the Board of Works held a hearing recently on the garbage ordinance not a solitary citizen appeared to offer suggestions for the improvement of the service. In view of the torrent of criticism aimed at the new regulations the Commissioners expressed surprise and said that either the new system was now acceptable or its critics had assumed an apathetic attitude. The objections raised were to the designation of certain hours of the day for collection and the placing of cans on the stoop line instead of near the curb.

**Storage Bins Save Additional Incineration**

Salt Lake City, Utah.—An appropriation of \$500 for two storage bins for the garbage crematory has been asked by William Margetts, the Sanitary Inspector. Some time ago the Board of Public Works made an arrangement with the Dixon Engineering Company for an addition to the plant to cost \$10,000. Council did not approve of the agreement. Now the Inspector reports that, if two storage bins are built, the garbage can be stored until night if necessary, and in this way the incinerators now in use will dispose of all the garbage.

**City Saves Much in Snow Removal**

New York, N. Y.—A great saving was effected by the new system of street cleaning which does not allow the contractors to profit by the snow which melts in the streets. A year ago, in the winter of 1906-1907, the total snowfall, as reported by the United States Weather Bureau, was 52.4 inches, and the total cost to the city of removal was \$2,470,499.99. The total snowfall for the winter of 1907-08, the season just closed, was 32.2 inches, or 62 per cent. of last year's fall, but the cost of its removal was only \$551,304.55, or only 23 per cent. of last year's cost. In 1906-07 the schedule of streets from which snow was removed aggregated 325 miles; this was increased in 1907-08 to 381 miles. In 1906-07 the cost of removing an inch of snow from a mile of street was \$173.94, while in 1907-08 it was only \$62.87. The year before that it was \$132.38. It may be said that if this year's snowfall had been removed by last year's methods it would have cost the city, presumably, \$1,524,236.22. Deducting the actual cost for this year from the presumptive figure, it leaves \$972,931.67, which represents the saving due to the change of system.

**Protests Against Dumping Garbage at Sea**

San Francisco, Cal.—The Board of Health has passed a resolution protesting against the action of Oakland and Berkeley in disposing of their garbage by dumping in the ocean. The Board objects to dumping in any portion of the bay or within the three-mile limit from land.

**PARKS AND OUTDOOR ART****Plan for Public Forum**

Cleveland, O.—Parking plans for the Public Square have been announced by the city, and the northwest corner is to be graveled to give a spot for speech-making. New seeding was done all over the Public Square this spring but the demand of the Socialists and others, who claim the right to hold meetings there, has forced the administration to change its plans.

**Improvements for Paris**

Paris, France.—A magnificent scheme for the beautification and sanitation of Paris has been laid before the Municipal Council by the Prefect of the Seine as a result of several years' study by experts. At an expenditure of \$80,000,000, out of a total issue of \$120,000,000 securities, it is proposed to clear spaces about the overcrowded centers and widen the streets. Large sums are apportioned for providing in the new parts gardens, schoolyards and promenades of the type probably of the open spaces in London. On improving the headquarters of the twenty Mayoralties into which municipal Paris is divided, \$5,000,000 will be spent. The plans can be carried out without any new tax by extending until 1945 the sinking fund payments, which, within a few years, will extinguish the municipal debts of 1865 and 1869.

**Playgrounds for Racine**

Racine, Wis.—A programme of concerted action towards the installation of a comprehensive system of playgrounds in Racine was outlined and launched at a recent meeting of city and school officials together with a number of interested citizens which was held at the Council chamber in the City Hall.

**Movement for Playgrounds Organized**

Scranton, Pa.—At a mass-meeting held in the Court House the citizens of Scranton organized a playgrounds association. Mayor J. Benj. Dimmick, who was the first speaker, put the case bluntly in saying that the city must have more playgrounds or more jails. However, the intention is not to ask for city help at once, but to establish the grounds and then, as in the case of kindergartens, the city government will have to recognize them. Several offers of grounds were received from property owners and some subscriptions were sent in. The officers of the association are: President, H. W. Kingsbury; Vice-President, James Murphy; Secretary, Benjamin Lathrop; Treasurer, F. L. Hitchcock.

### Moves for Playgrounds

Cleveland, O.—A committee of three has been appointed by the Public Playground Commission to prepare a comprehensive and permanent playground scheme, embracing the entire city. The committee consists of M. A. Fanning, Howard Woolston and George W. Ehler. Available property that is desirable for use as playgrounds will be indicated in the scheme and with the passage of the Howe bill exempting bonds for social center improvements from the Longworth limitations, the city will be able to carry out the policy without further delay. Park Engineer Stinchcomb has mapped out a scheme of procedure which may possibly be followed by the committee in carrying out the work. He favors the plan of having small playgrounds for children of ten years and under in every congested section of the city. Larger districts would be blocked out for civic centers for children of all ages and for adults as well. He also suggests three ten-acre athletic fields.

### New Fountain in East Oakland Park

Oakland, Cal.—Replacing a fountain injured in the earthquake of 1906, there has been set in Clinton Square a rock of volcanic formation standing fourteen feet from the base, secured for the city from the top of Berkeley hills. In the crevices of the rock, moss and ferns and flowers have been set and are watered by the spray from a fountain.

### Bridge and Tidal Gates Combined

Washington, D. C.—General Mackenzie, Chief of Engineers, U. S. Army, has approved plans of Major Spencer Cosby, Engineer in Charge of the improvements of the Potomac river, for building a bridge across the inlet to the tidal reservoir. This work will complete the original project of a tidal reservoir intended to flush and purify the Washington channel alongside the docks of the city. The outlet gates have been completed and used for years, but inlet gates were never installed. Now the gates will be between the piers of the bridge, which will be of ornamental concrete, steel construction and will form part of the new driveway being built along the river side of Potomac Park.

### RAPID TRANSIT

#### To Build Their Own Trolley Line

Baltimore, Md.—The residents and property owners along the Philadelphia road desiring a trolley road have decided to build it themselves. The line will be six miles long and will cost \$60,000. It is figured that when half of this amount is subscribed bonds can be issued for the balance. It is proposed to lease rolling stock and secure power from the United Railways and Electric Company.

#### Want Freight Cars on City Streets

Montreal, Que., Can.—The Montreal Board of Trade has passed a resolution advocating that an arrangement be made by the City Council with the Street Railway Company whereby, with proper restrictions and safeguards for the rights and interests of the city, the company should be permitted to carry freight in Montreal, due provision being made that such carriage of freight should not interfere with the passenger service. It is also advised that the City Council should reserve to itself the right to approve of such streets upon which the freight cars should be permitted to operate.

#### Traction Company Refuses Information

Troy, N. Y.—Several weeks ago, Council passed a resolution requesting the United Traction Company to file with City Treasurer Smith a statement showing the number of fares collected on the various lines. General Manager G. S. Fassett has replied that his company is under no obligations to furnish this information, unless the net income exceeds ten per cent. of the actual cost of the line and its operation. As a matter of fact, the net income never has exceeded this limit.

### More Seats on All Lines

New York, N. Y.—It is the intention of the Public Service Commission to insist that all the street railroad companies shall, except in cases where traffic conditions make it absolutely impossible, provide a seat for every passenger. Hitherto the Commission in ordering increased services has followed the policy of directing a larger number of trains to be run. Hereafter the Commission will have inspectors take observations of the number of passengers carried by a given point at certain hours a day and the companies will be ordered to increase their service so as to provide for seats for these passengers. The Commission may also take action in regard to the cutting off of all cross-town transfers by the Third Avenue Railroad.

### MISCELLANEOUS

#### Butler Wants to Eliminate Grade Crossings

Butler, Pa.—Council met at a special meeting to consider the question of a viaduct over the railroad tracks at Centre avenue, but, owing to the failure of representatives of the railroads to appear, nothing was done. At present the Butler street railways are unable to carry on a passenger business with the South Side because the courts have decided that the crossings are too dangerous for street cars. City Solicitor Wilson stated the law regarding grade crossings—or the absence of it. He said there was not a statute in the State to force railroad companies to eliminate grade crossings where they are now in use. The only way to eliminate the crossings is by the influence of public sentiment on the companies.

#### Regulating Operation of Picture Machines

Cleveland, O.—An amendment has been passed to the ordinance regulating the equipment and operation of picture machines. The booth in which the machine is operated must be closed in with sheet iron on a framework of angle iron. Other details required are: Floor shall be iron or asbestos; all shelves of non-combustible material; a large ventilator leading outside of the building; automatically-closing iron door of small size; non-inflammable insulation for electric wires; incombustible magazines for receiving and delivering the films. Operators of the machines are to be licensed, after passing an examination as to competency before the Inspector of Buildings. The machines will not be allowed in any building not having a direct opening to the street and constructed in other details in certain ways which the ordinance carefully prescribes. The fine for violation of the ordinance is \$200.

#### Municipal Telephone Plant

Jamestown, N. Y.—In his first annual message to the Common Council, Mayor Samuel A. Carlson gives considerable attention to the telephone question. The local company, it seems, has raised rates and the matter is pending in the courts. The Mayor does not fear the responsibility which may be thrown on the city of purchasing the company's plant, but rather welcomes it. He believes the plant can be maintained without any cost to the taxpayer. Municipal ownership of conduits which could be rented for other purposes, he believes, would bring in a profit to the city.

#### To Move a Village

Sparta, Minn.—It is believed the village of Sparta, Mesaba Range, is to be shifted to a new location. Ore underlies the present site, and to permit of its economical mining it is necessary that the town be moved. The new location has been selected, following the spectacle of diamond drilling to determine where ore does not exist. As soon as the work of filling is completed by the United States Steel Corporation and the ground has settled sufficiently, a wholesale removal of buildings will take place. It will, perhaps, be only a question of time when McKinley, another town, will also occupy another site. Hibbing, the metropolis of the range, is undelraided with bodies of ore.

## LEGAL NEWS

## A Summary and Notes of Recent Decisions—Rulings of Municipal Interest

## PEDDLER'S LICENSE—REGULATION NOT TAX

**State vs. Cederaski.**—The power conferred by charter of New Britain to license and regulate peddlers and hawkers authorizes regulation to protect the public from the special dangers incident to that trade, is not limited to regulation to obtain the information furnished by a registration of all persons so engaged, so that an ordinance prescribing a license fee of \$2 a month and for enforcing its payment is within the authority granted, and is not an exercise of the power of taxation.—Supreme Court of Errors of Connecticut.

## REGULATION OF CEMETERY

**Bryan vs. Mayor, Etc., of City of Birmingham.**—A municipality adopted an ordinance making it unlawful to use any cemetery within described limits. An owner of land within the limits had established a cemetery thereon. The cemetery was closer to the city than other cemeteries, and it was separated from the others by a highway, and there were houses between it and the highway. There was nothing to show that the city had not adopted the highway as a line of demarcation for the purpose of separating cemetery and non-cemetery area, and the sanitary conditions might not make it dangerous to maintain a cemetery on one side thereof. There was evidence that many houses were built near to the owner's cemetery, and no proof that any existed at or near the other cemeteries. Held, that the owner failed to show that the ordinance was invalid as an arbitrary discrimination against him.—Supreme Court of Alabama.

## WATER TAX—CLOUD ON TITLE

**Regan Land Co. vs. City of Carthage.**—A tax levied by a city to pay water rents under a contract with a water company which had been canceled by the city raises a cloud on the title of property assessed, which the owner has a right to have removed.—Kansas City Court of Appeals, Missouri.

## EXCAVATIONS IN STREET—REGULATION

**City of Carthage vs. Garner et al.**—The Revised Ordinances of 1901 of the city of Carthage, making it a misdemeanor to excavate in the streets, etc., without first making application to the City Clerk for permit to do the work, are not repugnant to the legislative policy of the State as manifested by Revised Statutes, 1899, relating to the incorporation of telephone companies and their rights, duties and liabilities to the charters and franchises, since the ordinance took away no charter or rights from such companies, but are only a reasonable police regulation of the manner of exercising such rights.—Supreme Court of Missouri.

## SALARY OF TAX COLLECTOR

**City of Covington vs. Zeisz.**—The section of an ordinance providing that a delinquent tax collector's salary shall be 7 per cent. of the amounts collected by him on delinquent tax bills, and on the amounts collected by suit or otherwise, while he is in office, and until one year after the expiration of his term, is apparently intended to give the delinquent tax collector commissions after his term, when money is collected by reason of a levy or sale made, or suit or process begun by him, such construction being in harmony with the statute creating the office, and with other sections of the ordinance; and it was manifestly not intended that he should make no effort to collect taxes, and then turn over the bills to his successor, and both be entitled to a commission on sums collected within one year.—Court of Appeals of Kentucky.

## CHANGE OF GRADE—DAMAGES

**City of Rawlins vs. Jungquist.**—Where plaintiff presented an itemized bill to the city for damage to his property caused by changing the grade of a street, and accepted the amount allowed therefor, there being no express agreement that it should be in satisfaction of only a part of the cause of action, the presumption is that it was intended as full compensation for the damages claimed, and the burden is on plaintiff to prove that it was in fact intended by both parties only as a part payment of his claim.—Supreme Court of Wyoming.

## PROTECTION OF CONTRACTOR'S WORK

**McDonald vs. Degnon-McLean Contracting Co. et al.**—An open trench in a street forming a necessary part of a lawful work done therein is not a nuisance, though it is dangerous; but reasonable care must be exercised to guard it and warn persons using the street. A contractor engaged in doing lawful work in a street, and maintaining as a part thereof an open trench some distance from the street crossing, is entitled, in determining what precautions are reasonable to properly guard it, to consider the location of the trench and how pedestrians will exercise their rights in the street, and the improbability of any attempt to cross the street at a point other than the usual crossing and the desirability of interfering as little as possible with traffic, and the failure to erect barriers along the curb is not proof of negligence, though such barriers might make an accident to pedestrians well-nigh impossible.—Supreme Court, Appellate Division.

## PERSONAL INJURIES—FILING STATEMENT

**Hungerford vs. Village of Waverly et al.**—Under Village Law, Laws 1897, providing that no action shall be maintained against a village for a personal injury unless a statement of the claim shall be filed within six months after the accrual of the cause of action, a failure to file a claim until after the expiration of the period without showing that it was filed as soon as the person injured was in a mental and physical condition to do so, or within reasonable time thereafter, bars an action. One of several trustees of a village has no authority to bind the village, and cannot waive noncompliance with Village Law, Laws 1897, requiring the filing of a claim against a village within six months after the accrual of the cause of action.—New York Supreme Court, Appellate Division.

## STREET OBSTRUCTION

**People ex rel. Mark Cross Co. vs. Ahearn, President of Borough of Manhattan.**—A New York City ordinance of 1832 authorized the owners of lots on Fifth avenue, between Sixth and Twenty-third streets, to inclose a court fifteen feet wide with an open iron railing in front of their lots on each side of the avenue, and also authorized the placing of a curbstone thirty feet from the line of the avenue on each side, provided that the courts, in the option of the Common Council, might thereafter be taken for street purposes. In 1844 such privilege was extended to lot owners on the avenue between Twenty-third and Forty-second streets. Held, that such ordinances did not authorize the placing of a boiler and engine with other pipes and machinery, in the part of the street in front of a building used for a restaurant on such avenue, formerly occupied as a courtyard, and the construction of a platform above the same, a foot to eighteen inches above the sidewalk, with a wall, iron railing, electric lamps and awning supports.—New York Supreme Court, Appellate Division.

## STREET CLEANERS AND HYDRANTS

**Frank et al. vs. City of Rome et al.**—Where municipal street cleaning contractors were not mere servants or agents of the city in performing their work, the city was not liable for their negligence in failing to promptly turn off a hydrant, and stop the flow of water onto the property of an adjoining owner.—New York Supreme Court, Appellate Division.

## CONTRACT WITH TELEPHONE COMPANY

**City of Jamestown vs. Home Telephone Co.**—The repeal of a provision of a city charter by an Act of the Legislature can be effected by express enactment only, and not by implication. The charter of Jamestown, Laws 1886, providing that the Common Council shall have power to prevent or regulate the setting or stringing of telephone poles and wires in the city, was not repealed by Laws 1890, as amended by Laws 1892, the "Transportation Corporation Law." Where a City Council is authorized by law to prevent or regulate the setting or stringing of telephone poles and wires in the city, an ordinance granting a telephone company a right to install and operate a telephone system and plant in the city, subject to certain restrictions and conditions, including a provision that the company should pay the city a certain per cent. per annum of its gross earnings after a certain number of revenue earning telephones were in operation, and such ordinance was accepted by the officers of the company upon authorization of a vote of its directors, and the ordinance recites the acceptance of the ordinance by the telephone company in consideration of its passage and other good and valuable considerations, including \$1, the receipt of which is acknowledged by the company, the telephone company is bound by the obligation.—New York Supreme Court, Appellate Division.

## NEWS OF THE SOCIETIES

**National Electric Light Association.**—The following tentative program has been announced for the thirty-first convention of National Electric Light Association, to be held at the Auditorium Hotel, Chicago, Ill., May 19-22:

Tuesday—Morning session, 10 a.m.: President's address; report of Committee on Progress, T. C. Martin; "Distribution in Suburban Districts," G. H. Lukes; "Tape," Paul Lüpke; report of Committee on Grounding Secondaries," W. H. Blood, Jr., Chairman.

Afternoon session, 2:30 p.m.: "Series Incandescent Lighting with Tungsten Lamps," P. D. Wagoner; "Power Load Development for Central Stations of Moderate Size—Some Unappreciated Possibilities," J. R. Bibbins and Charles Robbins; "The Small Station and Its Economical Operation," J. T. Whittlesey and Paul Spencer; question box, A. J. Campbell, Editor; report of Committee on Uniform Accounting, H. M. Edwards, Chairman.

Wednesday—Morning session, 10 a.m.: "Low Pressure Steam Turbines," J. W. Kirkland; report of Committee on Meters, L. A. Ferguson, Chairman; report of Committee on Gas Engines, W. C. L. Eglin, Chairman; "Receiving Stations Operated from High-Tension Lines," S. Q. Hayes; "Observations on the Precision of Different Types of Photometer," A. E. Kennelly and S. E. Whiting; parallel session—"Accountants"—sixth floor banquet hall.

Evening session, 8 p.m.: Executive session; report of Secretary and Treasurer and Executive Committee; report of Insurance Expert, W. H. Blood, Jr.; report of Committee on Public Policy, Arthur Williams, Chairman; report of Committee on Organization Possibilities, Henry L. Doherty, Chairman; "The Status and Commercial Possibilities of High Efficiency Lamps," W. W. Freeman; report of Committee on Rates and Costs, R. S. Hale, Chairman; election of nominating committee.

Thursday—Morning session, 10 a.m.: Commercial Day: C. W. Lee, Chairman, Programme Committee; Henry L. Doherty, Special Chairman.

Afternoon session, 2:30 p.m.: Report of Committee on Solicitors' Handbook Prize Award, J. F. Gilchrist, Chairman; report of Committee on Co-operative Electrical Development, W. W. Freeman, Chairman.

Friday—Morning session, 10 a.m.: "Illuminating Engineering," W. D'A. Ryan; report of Committee on Protection from Lighting and Other Static Disturbances, Robert S. Stewart; "The Value of Care and Maintenance of Meters," H. D. King; "Some Experiments in Combustion," S. J. Lenher; "Specifications for Construction on Joint Poles," Paul Spencer.

Executive Session: Election of officers; adjournment.

The exhibit by Class D members promises to be very extensive this year. It is announced that practically all of the exhibit space has already been acquired.

A convention daily will be published by the C. W. Lee Company.

**Western Society of Engineers.**—At a meeting of the Society at its rooms, Chicago, Ill., a paper was read by William M. Torrance on "Reinforced Concrete Structures in the Hudson River Tunnel." The paper referred chiefly to work near the terminals, where one tube crosses the other, the floor of the upper being the roof of the lower. At the meeting April 15, Prof. A. N. Talbot read a paper giving the results of a series of tests on the strength of iron and reinforced concrete culvert pipes. The experiments were made on pipes commonly used in railroad embankments.

**American Society of Mechanical Engineers.**—A meeting was held, April 14, in the Auditorium of the Engineering Societies Building, New York City, in response to the invitation of President Roosevelt, to engineers, to cooperate in the conservation of our natural resources. The meeting was presided over by J. W. Lieb, Jr., vice-president of the Society, who called attention to the fact that the first President of the United States was an engineer, who was interested in the development of waterways. Dr. W. J. McGee, Chief of the Bureau of Soils, Washington, D. C., followed

with an address on the Conservation of the Water and Woods, calling this the most important subject now before the people. He said it is time for a great revolution, without war, in which there shall be an awakening of a moral sense of obligation for the preservation of natural resources. One of the losses confronting the people of the United States is the loss of ground water. Too much flows away in torrents, because of the destruction of the forests. Instead of acting like a sponge, the earth, when stripped of its timber, sheds water like the roof of a building. The fertile soil washed away in the United States represents an annual loss of over \$1,000,000,000. Dr. W. F. M. Goss, Dean of the College of Engineering, University of Illinois, spoke on the Conservation of the Nation's Fuel Supply. Prof. George F. Swain, of the Massachusetts Institute of Technology, Boston, Mass., presented the subject of Stream Flow, Water Power and Navigation. The most effective way of regulating stream flow, he said, is by preservation of the forests, and this produces three effects of great importance; it conserves one of our greatest natural resources—water power; it prevents erosion of the soil; and it prevents the silting of navigable rivers and harbors as well as of reservoirs.

## Calendar of Meetings

April 29.

**American Society of Civil Engineers.**—Regular meeting at the House of the Society, 220 West Fifty-seventh street, New York City.—Charles Warren Hunt, Secretary.

May 1-2.

**American Electro-Chemical Society.**—Annual meeting, Albany, N. Y.—Joseph W. Richards, Secretary, Lehigh University, South Bethlehem, Pa.

May 11-16.

**American Water Works Association.**—Twenty-eighth annual convention, Washington, D. C.—J. M. Diven, Secretary, 14 George street, Charleston, S. C.

May 14-16.

**New York State City Clerks' Association.**—First convention, Schenectady, N. Y.—Frank L. Fonda, City Clerk, Schenectady, N. Y.

May 19-22.

**National Electric Light Association.**—Annual meeting, Chicago, Ill.—W. W. Freeman, Secretary, Engineering Societies Building, 29 West Thirty-ninth street, New York City.

May 26-28.

**National Fire Protection Association.**—Annual meeting, Chicago, Ill.—W. H. Merrill, Jr., Secretary, 382 Ohio street, Chicago, Ill.

June 2-7.

**International Association of Chiefs of Police.**—Fifteenth annual convention, Detroit, Mich.—Major Richard Sylvester, President, Washington, D. C.

June 17.

**North West Ohio Volunteer Firemen's Association.**—Thirty-fifth annual convention, Napoleon, Ohio.—J. H. Polher, Secretary.

June 23-26.

**American Society of Civil Engineers.**—Annual convention, Denver, Col.—Charles Warren Hunt, Secretary, 220 West Fifty-seventh street, New York City.

June 23-26.

**American Society of Mechanical Engineers.**—Annual convention, Detroit, Mich.—C. W. Rice, Secretary, 29 West 39th street, New York City.

June 23-27.

**American Society for Testing Materials.**—Annual meeting, Hotel Traymore, Atlantic City, N. J.—Edgar Marburg, Secretary, University of Pennsylvania, Philadelphia, Pa.

June 24-25.

**Indiana State Board of Health.**—General Conference, Indianapolis, Ind. Dr. J. N. Hurty, Secretary.

June 29-July 2.

**American Institute of Electrical Engineers.**—Annual convention, Atlantic City, N. J.—Ralph W. Pope, Secretary, 33 West Thirty-ninth street, New York City.

July 24-25.

**American Society of Heating and Ventilating Engineers.**—Summer meeting, Niagara Falls, N. Y.—W. M. Mackay, Secretary, P. O. Box 1818, New York City.

September.

**New Jersey State Firemen's Association.**—Annual meeting, Atlantic City, N. J.—William Exall, Secretary, 11 Howard street, Newark, N. J.

September 21-October 12.

**National Association for the Study and Prevention of Tuberculosis.**—International Congress, Washington, D. C.—Dr. Henry Barton Jacobs, Secretary, Baltimore, Md.—Dr. Joseph Walsh, Philadelphia, Pa. Special Secretary of the Committee on the International Congress.

October 11.

**International Roads Congress.**—First convention, Paris, France.—President Lethier, l'Inspecteur General des Ponts et Chaussees.

October 20-23.

**American Society of Municipal Improvements.**—Fifteenth annual convention, Hotel Dennis, Atlantic City, N. J.—A. Prescott Folwell, Secretary, 511 Flatiron Building, New York City.

## INCORPORATIONS

**Arizona Power Co.**, Portland, Me.; electric and other power; capital, \$4,000,000. Incorporators: President, J. W. Manter; treasurer, C. E. Eaton; clerk, M. W. Baldwin, all of Portland.

**Aurora Pump & Supply Co.**, Aurora, Ill.; to manufacture pumps and fittings; capital, \$60,000. Incorporators: W. B. Lathrop, F. B. Shearer, M. A. Segers.

**Columbus Electric Light & Water Co.**, Columbus, Mont.; capital, \$20,000. Incorporators: James Craig and others.

**Concrete Separator Co.**, New York, N. Y.; builders, contractors and engineers; capital, \$6,000. Incorporators: Edward R. Elchner and William B. Johnstone, 1123 Broadway; M. G. Bender, 34 Nassau street, all of New York.

**Crystal Lake Home Telephone Co.**, Sand Lake, N. Y.; telephone line; capital, \$10,000. Incorporators: Edward L. Grawel, W. Lewis Burk, John M. O'Donnell, Troy and others.

**Foote Concrete Machinery Co.**, 84 La Salle street, Chicago, Ill.; to manufacture machinery; capital, \$20,000. Incorporators: F. O. Wilcox, A. G. Dicus, G. S. Wheeler.

**Haskel Quarry Co.**, Haskel, N. J.; to quarry stone, etc., builders and contractors; capital, \$10,000. Incorporators: Jurgen P. Lange, John W. Pange, 234 Lexington avenue, both of Passaic; Jurgen P. Lange, Jr., 336 North Fullerton avenue, Montclair.

**New York & Ontario Power Co.**, Kittery, Me.; stocks, bonds, etc.; capital, \$1,500,000. President and clerk, H. Mitchell, Kittery; treasurer, S. J. Morrison, Portsmouth, N. H.

**National Light & Power Co.**, 554 Fifteenth street, Chicago, Ill.; to manufacture individual gas plants; capital, \$500,000. District of Columbia corporation.

**N. S. P. Manufacturing Co.**, Newburgh, N. Y.; to manufacture plaster, cement, lime, brick, etc.; general contractors; capital, \$200,000. Incorporators: William J. McKay, Retta L. McKay, Benjamin McClung, Newburgh, N. Y.

**F. J. Rooney Lamp Co.**, New York, N. Y.; to manufacture lamps; capital, \$25,000. Incorporators: F. J. Rooney, 1000 Simpson street; L. J. Morrison, 50 Broadway, both of New York; Jeannette Block, Union Hill, N. J.

**Sando Engineering Co.**, Boston, Mass.; engineering; capital, \$25,000. President, David A. Debow, Buffalo; treasurer, Will J. Sands, Milwaukee; clerk, Henry W. Dunn, Concord.

**Santo Domingo Water, Light, Heat and Power Co.**, Portland, Me.; water powers; capital, \$1,400,000. President and treasurer, A. P. Chickering, North Andover, Mass.; clerk, Frederick Hale, Portland.

**Spencer Light, Power, Heat and Water Co.**, Spencer, Ind.; capital, \$75,000. Incorporators: Laurent Lowenberg, Carl J. Keeper and others.

**Terry, Tench & Proctor Tunneling Machine Co.**, New York, N. Y.; to manufacture tunneling machinery, engines, motors, cars, trucks, machines, implements, construct tunnels, etc.; capital, \$1,500,000. Incorporators: James J. Banks, Denver, Colo.; Arthur S. Luria and E. E. Morris, 2 Rector street, New York.

**Troy Engineering & Construction Co.**, Troy, N. Y.; building and repairing, bridge work, etc.; capital, \$50,000. Incorporators: Walter H. Mansfield and Ransom H. Gillett, Troy; Austin L. Burton, Warren, Me.

**United Engineering & Contract Co.**, Dover, Del.; capital, \$250,000. Incorporators: T. K. Cheyney and G. H. Evans, Philadelphia; R. R. Kenney, Dover.

**Upper Iowa Light & Power Co.**, Portland, Me.; light and heat; capital, \$305,000. President, J. E. Manter; treasurer, C. E. Eaton; clerk, M. W. Baldwin, all of Portland.

**Williamsville Electric Light and Power Co.**, Williamsville, N. Y.; capital, \$35,000. Incorporators: Oscar A. Simon, James D. Ferris and others.

## PERSONALS

BECKER, SHERBURNE M., Mayor of Milwaukee, Wis., who retired from office April 21, will make a campaign for Governor of the State in balloon.

BRANNAN, T. S., the new Mayor of Ida Grove, Ia., has been inducted into office; also H. A. Moorehead, City Engineer; Theo Kephart, Engineer of Water Works; Alex Dalgetty, Street Commissioner; George H. Hubbard, City Clerk; Charles Macomber, City Solicitor.

EDDY, HARRISON P., M. Am. Soc. C. E., of Metcalf & Eddy, Consulting Engineers, 14 Beacon street, Boston, Mass., declined the position of head of the Street Department of Boston. Within a year past Mr. Eddy resigned the position of Superintendent of Sewers, Worcester, Mass., which he had held for many years, in order that he might enter into consulting work, and still holds to his purpose to continue practice as a consulting engineer.

EMERSON, GUY C., has been appointed Superintendent of Streets of Boston, Mass., at \$7,500 per annum, and in accordance with a recent city ordinance will have charge of the reorganized Department, which will take in all street work with the exception of that under the Water Department. Mr. Emerson is a civil engineer and received his technical education in the Massachusetts Institute of Technology. He then entered the service of the Metropolitan Sewerage Commission, was subsequently in the designing and construction departments of the Boston subway, and in 1898 entered private practice. He re-entered the city service in 1900 as Deputy Superintendent of Streets, and later became Acting Superintendent. For a year, beginning in 1902, he was Chief Engineer of the Montreal Subway Company, making surveys and plans for tunnels and subways under the city streets. Since then he has been in private practice and has been Construction Engineer in the U. S. Reclamation Service.

EDWARDS, F. J., has been elected Mayor of Helena, Mont., over E. N. Brandegee and James Taylor.

ELLIS, GEORGE E., Mayor of Grand Rapids, Mich., has been re-elected; also John Campbell of Muskegon and Augustus Spies of Menominee. George R. Herkimer has been elected Mayor of Dowagiac, and F. H. Hilham of Kalamazoo; John H. Kirk of Ypsilanti; Wallace D. Burke, Owosso, over Stanley E. Parkhill, and H. C. Spencer over Mayor George E. McKinley of Flint.

FRNST, LOUIS P., has been elected Mayor of Springfield, Mo., over Ben E. Moyer.

FOX, J. B., member of the Board of Water Commissioners of Bradford, Pa., has been unanimously re-elected by the City Council for a term of three years.

GIBBES, T. H., Mayor of Columbia, S. C., in relinquishing the reins of government to W. S. Reamer, his successor, was presented with an engraved silver loving cup by Mayor Pro Tem Willis, in behalf of the old Council, and, on adjournment, all drank punch to the health of the former Mayor.

GRAY, JAMES H., has been elected Mayor of Santa Rosa, Cal., over Rolfe L. Thompson by 300 majority.

HOOKE, ROBERT, City Engineer of Chattanooga, Tenn., for a score of years or more, has again been re-elected by the Board of Public Works, in accordance with the requirements of the charter, following the re-organization of the Board as a result of the re-election of Harry Van Dusen, chosen by Council to succeed himself, and who has been re-elected as Chairman; Mr. Hooke has always received the unanimous vote of the Board. C. B. Russell, who was

recently elected Superintendent of the Scavenger Service to succeed J. R. Brennan, Acting Superintendent, was also re-elected, as were Thomas F. Mahoney, Sidewalk Inspector, and Miss Annie McMillin, Clerk of the Board.

HOOKER, EDWARD W., member of the Connecticut Legislature, has been elected Mayor of Hartford over Ignatius A. Sullivan, who was defeated for re-election as Mayor four years ago by William F. Henney, who declined a renomination.

LEHMAN, LOUIS, Mayor of Mattoon, Ill., has resigned because the city "went dry" at the recent election.

MORRISON, C. P., has been elected member of the Board of Affairs of Parkersburg, W. Va.

MORTIMORE, W., M. I. C. E., Chief Engineer of the Meldrum Destructor Company of Manchester, England, sailed for home on the *Lusitania* April 15, after completing the installation at Seattle, Wash., of a municipal refuse destructor. Mr. Mortimore had charge of the construction of this, under the contract made last November, and has operated the plant for fifty days since its completion. This is the first plant of English type to be owned and operated by a United States city, and has already been visited by the Mayors and other officials of several Pacific coast cities.

Moss, E. E., has been elected Mayor of Pulaski Heights, Ark., a suburb of Little Rock, where many business men of the city reside.

MURRAY, MIKE, Mayor of Walkerville, Mont., was defeated for re-election by Ed. Finegan.

OLDERSHAW, F. H., City Engineer of New Britain, Conn., has been re-elected.

ROLLOW, T. P., has been elected Mayor of Wynnewood, Okla.; Dr. J. H. Boozer, Clerk; J. A. Lawrence, Treasurer; F. L. Robinson, City Attorney; W. L. Collins, Chief of Police, and J. W. Mitchell, Street Commissioner.

ROSE, DAVID H., has been elected Mayor of Milwaukee, Wis., for the fifth time, over Emil Seidel, Socialist, by 3,000 votes, while Thomas J. Pringle, the Republican, was 1,000 votes behind Seidel; Mayor-elect Rose was defeated two years ago by Sherburne M. Becker.

SCHUBERT, J. C., Mayor of Madison, Wis., has been re-elected over Rev. Dr. J. McKay, who favored Sunday closing of saloons by 1,268 majority, the largest ever given a candidate; L. E. Cunningham, Mayor of Beloit, was re-elected, and a majority of 300 accorded for license; Mathias J. Scholey, agent of a brewing company, was elected mayor of Kenosha, Wis., over Edward S. Alteman by 505 votes; Jefferson re-elected Mayor W. S. Henry; Monroe elected W. J. Knight over Frank A. Shriener; Elkhorn, S. C. Goff; Lake Mills, P. C. Henningson, re-elected; Waupaca, Mayor Gurley, re-elected; Palmyra, Otto Scherer; Sparta, W. N. Wells; Eau Claire, William H. Frawley; Alma, Dr. Tenney; Delavan, Dr. F. A. Rice; Mariette, Joseph Fisher; Viroqua, F. A. Tate; Burlington, Henry E. Zimmerman over Mayor Edward Rakow; Oconto, former Mayor A. J. Caldwell over Victor Brazeau; Superior, Frank R. Crumpton over Joseph Konkel; Green Bay, Winford Abrams over Fred B. Warren.

SCHUNK, H. A., Mayor of Dubuque, Ia., has been re-elected over Mr. Ott.

SPIES, AUGUSTUS, Mayor of Menominee, Mich., has been re-elected by a majority of twelve votes over Redmond Panghorn, and Michael was elected City Treasurer over William Kuhne.

TRIPPLETT, R. H., has been elected Mayor of St. Mary's, W. Va.

## MUNICIPAL REPORTS

**Report of Plan Commission for the City of Columbus, Ohio.**—This report was submitted in February of this year, but has just appeared in printed form. The Commission consisted of Austin W. Lord, Architect, as Chairman; Albert Kelsey, Architect; Charles N. Lowrie, Landscape Architect; H. A. MacNeil, Sculptor, and Charles Mulford Robinson, Civic Adviser, as Secretary. The report, as published, compares favorably in its artistic presentation with those of Boston, New York, St. Louis and other cities, issued during the past two years. This report was the result of an agitation for a park system and finally for more comprehensive betterment of the city, conducted by Civic Associations of Columbus, which induced the City Council to appropriate, on September 17, 1906, \$5,000 for the employment of experts to suggest plans for the future welfare in beautifying the city. The Commissioners named above were appointed and held their first meeting in January of last year. The Commission suggests that the centennial of the establishment of Columbus as the capital of the State, which will occur in 1912, would be appropriately celebrated by the consummation of some such plan as that proposed. The report is divided into three parts, the first containing a general survey of the city, calling attention to the objectionable features which need remedying and making general suggestions for improvements and beautifying; these including burying of wires, the methodical extension of street railways, the providing of convenience stations and trolley waiting rooms, the improvement of existing parks, the parking and improvement of river banks, etc. Part II. makes definite recommendations concerning parks, parkways and recreation grounds, from tree planting in alleys to large parks or reservations outside the city limits. Part III. considers the formation of a civic center, with the existing State House as a nucleus, alternative plans being offered for this. In conclusion, the Commission suggests that a non-partisan, self-perpetuating local Commission be placed in charge of the carrying out of these plans, such Commission to be composed of citizens of the highest intelligence and greatest public spirit. The fifty-six pages of the report are handsomely printed and profusely illustrated with views of Columbus and vicinity, and of several other cities, showing what has been done elsewhere.

**Charter and Ordinances of the City of New Haven, Conn., Special Acts.**—This compilation occupies 357 closely printed pages and contains besides a good index of 71 pages. The subject matter, of course, covers the whole field of municipal activity. A pamphlet containing amendments to the charter passed by the General Assembly of 1907 brings the volume up to date.

**General Laws Concerning Taxation and Taxing Officials, State of Connecticut.** Part I. Local Revenues, 1907.—This public document gives the tax laws relating to towns, cities, boroughs, school districts and counties with annotations and references to decisions by the Supreme Court; also extracts from the Constitution of the State and form of oaths. The index occupies 32 of the 110 pages.

## THE WEEK'S CONTRACT NEWS

**Relating to Municipal and Public Work—Street Improvements—Paving, Road Making, Cleaning and Sprinkling—Sewerage, Water Supply and Public Lighting—Fire Equipment and Supplies—Buildings, Bridges and Street Railways—Sanitation, Garbage and Waste Disposal—Police, Parks and Miscellaneous—Proposals and Awards**

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we can not guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

## BIDS ASKED FOR

| STATE                      | CITY            | RECEIVED UNTIL   | NATURE OF WORK  | ADDRESS INQUIRIES TO                                      |
|----------------------------|-----------------|------------------|---|---|
| <b>Street Improvements</b> |                 |                  |   |   |
| Pennsylvania               | Norristown      | April 30, 8 P.M. | Furnishing curb, sewer pipe, etc.   | S. Cameron Corson, Engineer.                              |
| Pennsylvania               | Harrisburg      | April 30         | Brick and macadam, 7 roads, 33,107 ft. long.  | Jos. W. Hunter, St. H'way Com'r.                          |
| Indiana                    | Muncie          | May 1, 10 A.M.   | Building system of gravel roads in Harrison township.   | Jos. E. Davis, County Auditor.                            |
| Indiana                    | Noblesville     | May 1, 10 A.M.   | Bldg. gravel road on line bet. Hamilton & Tipton Counties.  | N. W. Cowgill, County Audit'.                             |
| Alaska                     | Skagway         | May 1, noon      | Constructing 2 1/2 miles of wagon road.   | Lt. Sam P. Orchard, U. S. Army.                           |
| Alabama                    | Huntsville      | May 1, noon      | Vit. brick paving on 5-in. concrete base, granite curb, Jeff. St., inc. intersections; also Washtn. St., same.  | Secretary Road Commissioners.                             |
| Ohio                       | Cincinnati      | May 1, noon      | Improving Cleves and Miamitown road.  | R. E. Smith, Mayor.                                       |
| Maryland                   | Baltimore       | May 1, noon      | Grading and macadamizing 6 1/2 miles State Road No. 1.  | Fred Dreihns, County Clerk.                               |
| Pennsylvania               | Wilkes-Barre    | May 1, 2 P.M.    | Furn. portable stone crusher, 8 to 12 tons per hr., with elev., etc.  | W. W. Crosby, Ch. Engr. Md. Geol. Survey.                 |
| Pennsylvania               | Lansdowne       | May 1, 8 P.M.    | Laying telford macadam pavement on several streets.   | James M. Norris Co., Contractor.                          |
| Utah                       | Salt Lake City  | May 1, 8 P.M.    | Grading, 1,200 cu. yds.; asphalt paving, 1,300 sq. yds., etc.   | John W. Davis, Boro Clerk.                                |
| Ontario                    | Winchester      | May 1, 8 P.M.    | Constructing 43,000 sq. ft. concrete sidewalks.   | L. C. Kelsey, City Engineer.                              |
| Kentucky                   | Louisville      | May 1            | Granite block paving, 10,000 sq. yds.; grade, curb; \$26,000.   | Thos. H. Dunn, City Engineer.                             |
| Ohio                       | Lima            | May 1            | Bldg. several miles crushed stone road on gravel base.  | J. P. Claybrook, Ch. Eng., D. P. W.                       |
| Iowa                       | Iowa City       | May 1            | Constructing brick sidewalks in certain streets.  | H. N. Lamberton, Clk., B. P. S.                           |
| Utah                       | Salt Lake City  | May 1            | Asphalt paving, 20,000 sq. yds.; cost, \$70,000.  | O. J. Slater, City Clerk.                                 |
| Salvador, C. A.            | San Salvador    | May 1            | Paving certain sts. with stone, asphalt joints, measuring 18,586 meters; nat. or art. stone on solid pressed material.  | L. C. Kelsey, City Engineer.                              |
| Minnesota                  | Fork            | May 1            | Constructing five miles of road.  | Ernest Schernikow, Consul, N.Y. City                      |
| Illinois                   | Anna            | May 1            | Constructing 24,758 sq. yds. brick pavement.  | J. P. Lein, Township Clerk.                               |
| Minnesota                  | Belview         | May 2, 10 A.M.   | Road work in Kintire township; Dan'l McKay, Township Clerk.   | C. W. Brown, Jacksonville, C. E.                          |
| Dist. of Col'bia           | Washington      | May 2, noon      | Granite block paving, 1st St., n.e., bet. H. St. & N. Y. Ave.   | L. T. Braafladt, Chm. Town Bd.                            |
| Minnesota                  | Glyndon         | May 2, noon      | Constructing and repairing roads.   | Jay J. Morrow, Eng. Com'r.                                |
| Virginia                   | Orange          | May 2, noon      | Constructing 16 miles macadam road.   | Oscar Johnson, Clk., Town Spring Prairie, R. F. D. No. 2. |
| Indiana                    | Delphi          | May 4, noon      | Grading and graveling 9 miles of road.  | W. W. Sanford, Chm. Bd. Superv's.                         |
| New York                   | Albany          | May 4, noon      | Completing work on State Roads, Nos. 384, 590, and 456.   | M. G. Haun, County Auditor.                               |
| Ohio                       | Upper Sandusky  | May 4, noon      | Grading and stoning a specified road.   | Fred'k Skene, State Eng'r.                                |
| Indiana                    | Tipton          | May 4, 1 P.M.    | Constructing McColey gravel road in Cicero township.  | J. N. Traxler, County Auditor.                            |
| Ohio                       | St. Clairsville | May 4, 1 P.M.    | Delivering and breaking limestone on National Road.   | J. F. Barlow, County Auditor.                             |
| Indiana                    | Salem           | May 4, 1:30 P.M. | Bldg. gravel road: 34,250 ft. Posey twp., 16,800 ft. Wash. twp.   | A. W. Beatty, County Auditor.                             |
| Minnesota                  | Worthington     | May 4, 2 P.M.    | Grading about 9,000 cu. yds.  | Sam. G. Ellis, County Auditor.                            |
| Kansas                     | Lawrence        | May 4, 5 P.M.    | Mat. and labor; earth exc., 600 cu. yds.; 2,000 sq. yds.; 2 course brick paving, Vermont St.; also 1,800 cu. yds. exc., 4,000 sq. yds., 1 course brick on 4-in. concrete, sand filler; 2,000 ft. lime-stone curb, Henry St. | E. C. Pannell, County Auditor.                            |
| Pennsylvania               | Greensburg      | May 4, 8 P.M.    | Paving, grading, curbing, 4 sts.  | F. D. Brooks, City Clerk.                                 |
| Minnesota                  | Winona          | May 4, 8:30 P.M. | Brick paving alleys in blocks 15, 17 and 21.  | John S. Sell, Chief Burgess.                              |
| Indiana                    | Jeffersonville  | May 4            | Building 50 miles pike road, Charlestown tp.; cost, \$61,000.   | Paul Jasmer, City Recorder.                               |
| Pennsylvania               | Altoona         | May 4            | Paving sts.; bids received April 18 rejected; too high.   | Board of County Commissioners.                            |
| Indiana                    | Vernon          | May 4            | Bldg. 13,737 ft. gravel road, 3 twps.; 2 1/2 miles, Sandcreek twp.  | G. A. McFalls, City Engineer.                             |
| North Carolina             | Asheville       | May 4            | Grading, etc., 7,200 ft., Charlotte St. extension.  | F. L. Thomas County Auditor.                              |
| Ohio                       | Chardon         | May 4            | Grading and improving County road, near Scotland station.   | M. L. Reed, Chm. Co. Com'rs.                              |
| Missouri                   | Springfield     | May 5, 9 A.M.    | First-class brick paving, 28,590 sq. yds., 3 items.   | W. W. Hall, County Auditor.                               |
| Indiana                    | Vincennes       | May 5, 10 A.M.   | Gravel roads: 4,210 ft. Johnson twp.; 11,956 ft. Vigo twp.  | H. G. Horton, City Engineer.                              |
| Michigan                   | Detroit         | May 5, noon      | Constructing macadam on Mt. Elliott and Gratiot roads.  | John T. Scott, County Auditor.                            |
| Missouri                   | St. Louis       | May 5, noon      | Improving 7 miles sts.; 34 contracts; \$415,000.  | Edw. N. Hines, Chm. Co. Com'rs.                           |
| Indiana                    | Winchester      | May 5, 1 P.M.    | Bldg. 1,250 ft. gravel road, Monroe, 3,675 ft., Wayne twp.  | A. J. O'Reilly, Pres. Bd. Pub. Imp.                       |
| Indiana                    | Rockville       | May 5, 1 P.M.    | Constructing gravel road.   | Mack Pogue, County Auditor.                               |
| Indiana                    | Tipton          | May 5, 1 P.M.    | Constructing 1 1/2 miles of gravel road in Cicero township.   | County Auditor.   |
| Indiana                    | Greensburg      | May 5, 1 P.M.    | Bldg. macadam roads Clay and Sandcreek twps.  | J. B. Barlow, County Auditor.                             |
| Indiana                    | Martinsville    | May 5, 2 P.M.    | Bldg. 2,998 ft. gravel road; also 2,137 ft., Jackson township.  | Frank E. Ryan, County Auditor.                            |
| Indiana                    | Connersville    | May 5, 7:30 P.M. | Bldg. 3,268 ft. gravel sts.; 10,000 sq. ft. cement walks.   | B. E. Thornburg, County Auditor.                          |
| New Jersey                 | Woodbury        | May 5, 8 P.M.    | Paving Warren's, bitulithic, 4,165 sq. yds., N. and S. Broad St.  | Jacob S. Clouds, City Clerk.                              |
| Indiana                    | Spencer         | May 5            | Constructing 3,500 ft. of pike road, Montgomery township.   | Wm. M. Carter, 127 S. Broad St. Eng.                      |
| Indiana                    | Washington      | May 5            | Constructing several gravel roads.  | Geo. W. Edwards, County Auditor.                          |
| New Jersey                 | Passaic         | May 6, 10 A.M.   | Macadamizing, repairing, etc., various roads.   | County Auditor.   |
| Iowa                       | Sigourney       | May 6, 8 P.M.    | Vit. brick paving, 10,460 sq. yds.; comb. curb and gutter, 6,235 lin. feet.   | W. S. Cox, Bd. Freeholders, Paterson.                     |
| Indiana                    | Muncie          | May 6            | Grading, draining, gravel paving roads in Harrison twp.   | C. R. Allen & Sons, Ottumwa, C. E.                        |
| Wisconsin                  | Fond du Lac     | May 7, 2 P.M.    | Cement paving, Forest Ave.; brick, W. 1st St.; macadam, or brick, Butler and Court Sts.; total cost, \$44,132.  | Jos. E. Davis, County Auditor.                            |
| New Jersey                 | Westwood        | May 7, 3 P.M.    | Macadamizing 3 avenues in River Dale.   | L. A. Pettibone, City Engineer.                           |
| Pennsylvania               | Monessen        | May 7, 4 P.M.    | Brick paving, 6,450 sq. yds.; curb, 5,368 ft.; rough curb, 216 ft.  | Geo. H. Sedman, Chm. Twp. Com.                            |
| Pennsylvania               | Erie            | May 7            | Paving 8 streets, resurfacing French St.  | J. F. Irwin, Boro. Engineer.                              |
| Ohio                       | Cincinnati      | May 8, noon      | Improving Spring Grove Ave.; Specification No. 728.   | B. E. Briggs, City Engineer.                              |
| Ohio                       | Paulding        | May 8, 2 P.M.    | Grading, macadamizing, etc., Wyatt pike, 3 sections; 37,302 ft. long, 26,726 and 26,546 ft. inc. stone approaches.  | Fred Dreihns, County Clerk.                               |
| New Jersey                 | Salem           | May 9            | Bldg. Penn's Grove and Dancers Mill road, 3.2 miles.  | C. L. Straw, Engineer.                                    |
| New York                   | Madison Barr'ks | May 11, 2 P.M.   | Bldg. 86,000 ft. macadam road; resurfacing 14,500 ft. road; constructing 32,500 ft. concrete walks.   | J. F. Ayres, Bd. Freeholders.                             |
| Kentucky                   | Paducah         | May 12, 3 P.M.   | Paving, 10,320 sq. yds.; new granite curb, 2,300 ft.; redress and reset, 1,930 ft. limestone curb; granitoid gutters, 4,600 ft., granitoid walks, 33,530 sq. ft.  | C. J. Nelson, Q. M., U. S. Army.                          |
| New York                   | Dunkirk         | May 12           | Street paving.  | L. A. Washington, City Engineer.                          |
| New Jersey                 | Freehold        | May 13, 11 A.M.  | Bldg. Keypoint and S. Amboy road, 1.2 miles long.   | L. N. Murray, City Clerk.                                 |
| Dist. of Col'bia           | Washington      | May 14, 2 P.M.   | Furn. for fiscal yr., begin July 1; granite curbs, asphalt paving block, vit. paving block; Portland cement, castings, sewer pipe, etc.   | H. S. Sproul, County Engineer.                            |
| Wisconsin                  | Fond du Lac     | May 14, 3 P.M.   | Paving certain streets with brick; 11,000 sq. yds.  | Jay J. Morrow, Eng. Com'r.                                |
| Indiana                    | Indianapolis    | May 16, 10 A.M.  | Bldg. Wm. D. Spray joint-free gravel road.  | J. F. Hohensee, Clk., Bd. Pub. Wks.                       |
| Indiana                    | Frankfort       | May 16, 10 A.M.  | Constructing 5,368 ft. gravel road, bet. Boone & Clinton Cos.   | C. F. Cromwell, County Auditor.                           |
| Ohio                       | New Lexington   | May 16, noon     | Labor and material for paving; cost, \$75,000.  | Charles F. Cromwell, Co. Auditor.                         |
| South Dakota               | Ashton          | May 16, 1 P.M.   | Grading 8 miles in Jefferson township.  | Charles A. Beard, City Clerk.                             |
| Pennsylvania               | Washington      | May 16           | Piking 2 1/2 miles broken limestone roads, 1,425 cu. yds.   | O. B. Olsen, Clk., Town Bd., Jeff.                        |
| New Jersey                 | New Brunswick   | May 18           | Paving 20,000 sq. yds., Throop Ave., with brick.  | Road Supervisors, Donegal Twp.                            |
| Pennsylvania               | Erie            | May 25           | Paving 7th St., from Cherry to Plum St.   | Fred. C. Schneider, City Eng'r.                           |
| Mississippi                | Gulfport        | May 26, 8 P.M.   | Constructing, complete, 14,000 sq. yds. paving; 15,000 lin. ft. concrete curb and gutter; 15,000 lin. ft. granite curb.   | B. E. Briggs, City Engineer.                              |
| Iowa                       | Le Mars         | May 28           | Constructing sidewalks on certain streets.  | M. F. Sullivan, City Engineer.                            |
| Ohio                       | Cleveland       | May 29           | Laying cement sidewalks in certain streets.   | V. D. Hoffman, City Clerk.                                |
| New York                   | Fort Slocum     | June 1, 11 A.M.  | Constructing roads, sidewalks, gutters, drains, etc.  | A. R. Callow, Sec'y Bd. Pub. Serv.                        |
| Indiana                    | Crawfordsville  | June 8           | Paving 5 blocks on College, Water and Walnut Sts.   | Constr. Q. M., U. S. Army.                                |
|                            |                 |                  |   | B. R. Johnston, City Engineer.                            |

## Water Supply

|                   |                     |                       |  |   |
|-------------------|---------------------|-----------------------|--|---|
| Indiana.....      | Madison.....        | April 30, 10 A.M..... | Water supply, etc., for new Southeastern Hospital for Insane.....  | Foltz & Parker, Ind'p'lis, Archs.           |
| Washington.....   | Fort Casey.....     | April 30, 11 A.M..... | Furn. and laying 6-in. wooden stave pipe at Fort.....  | Chief Q. M., U. S. A., Vancouver Barracks.  |
| Ohio.....         | Jefferson.....      | April 30, noon.....   | Constructing water works plant, inc. 4 miles 4-in. pipe; one of 6-in., two of 8-in., 30 valves, 35 hydrants; also 60,000-gal. tank on 120-ft. tower.....                                   | O. A. Dickson, Chm. Bd. Trus.               |
| Oregon.....       | Fort Stevens.....   | April 30, 2 P.M.....  | Constructing a cistern.....  | Constructing Quartermaster, U. S. A.        |
| Saskatchewan..... | Prince Albert.....  | April 30, 8 P.M.....  | Laying 11,420 ft. water pipe and connections, etc.....   | R. S. Cook, Mayor.                          |
| Minnesota.....    | Duluth.....         | April 30.....         | Constructing water and gas mains in certain streets.....   | Edward K. Coe, City Engineer.               |
| Ohio.....         | Jefferson.....      | April 30.....         | Constructing water works.....  | L. E. Chapin, C. E., Canton.                |
| Missouri.....     | St. Louis.....      | May 1, noon.....      | Furn. 4,680 tons 4 to 36-in. c. i. pipe, 271 6 to 20-in. stop valves, 825 port fire plugs, etc., for hauling and laying water pipe; cost, \$230,000.....                                   | W. B. Dryden, Sec'y Bd. Pub. Imp.           |
| Ohio.....         | Carthage.....       | May 1, noon.....      | Constructing addition to pump house.....   | John Kuderer, Sec'y Bd. Pub. Aff'rs.        |
| Ohio.....         | Sandusky.....       | May 1, noon.....      | Furn. and installing two 6,000,000-gal. cent. pumps, dir. con., etc., inc. found.; suction and discharge pipe, etc.; also duplex air compressor, etc.; duplex steam cylinders, etc.....    | A. J. Stoll, Pres. Bd. Pub. Serv.           |
| Michigan.....     | Saginaw.....        | May 1, 7:30 P.M.....  | Material and labor: 6,500 ft. 24-in., 2,500 ft. 16-in., 200 ft. 8-in. water mains, with valves, hydrants, specials, etc.....   | David C. Bell, Clk. Water Board.            |
| Ohio.....         | Carthage.....       | May 1.....            | Constructing addition to pump-house.....   | Lewis Hall, Village Clerk.                  |
| Michigan.....     | Milan.....          | May 4, 1 P.M.....     | Constructing water system, 5 Sections: storage reservoir, complete; elevated steel tank, power house, equipment, etc.; turn, 25,000 ft. c. i. pipe, etc., trenching, laying pipe, etc..... | Riggs & Sherman Co., Toledo, O.             |
| Mississippi.....  | Monticello.....     | May 4, 1 P.M.....     | Putting down artesian well, size 2, 3 and 4 ins.....   | W. H. Speights, Clk. Bd. Superv.            |
| Delaware.....     | Wilmington.....     | May 4, 1:30 P.M.....  | Sale of 4 horizontal pumping engines.....  | Howard B. Griffith, City Engineer.          |
| Iowa.....         | Tipton.....         | May 4, 7 P.M.....     | Constructing concrete reservoir, 100,000 gals. cap.....  | J. E. Bartley, Mayor.                       |
| New Jersey.....   | Bloomfield.....     | May 5, 8 P.M.....     | Furn. 5,000 ft. 4, 6, 8-in. pipe, f. o. b. Bloomfield.....   | Town Council.                               |
| Iowa.....         | Dike.....           | May 5.....            | Bldg. water system; Natt Bagley, Clerk.....  | Turner & Rolland, Des Moines, Eng's.        |
| Iowa.....         | Primghar.....       | May 6, 8 P.M.....     | Bldg. water works system; M. Tschirgi & Sons, Engineers.....   | W. H. Downing, City Clerk.                  |
| Minnesota.....    | White Bear.....     | May 8, 8 P.M.....     | Ext. water mains, inc. 12 miles pipe line, specials, etc.....  | Oscar Claussen, C. E., St. Paul.            |
| Iowa.....         | Sioux City.....     | May 11, noon.....     | Bldg. pumping and power plant, inc. machinery, etc.....  | E. H. Hosmer, County Auditor.               |
| New York.....     | New York.....       | May 12, 11 A.M.....   | Constructing pressure tunnel under Walkill river, inc. exc., structural steel, pumping plant, masonry, air compressors, etc., cost, \$4,000,000 or \$5,000,000.....                        | J. Waldo Smith, Ch. Eng'r Bd. Water Supply. |
| Mississippi.....  | Alcorn.....         | May 12.....           | Artesian well, water pipe, Alcorn Col. water system.....   | J. P. Savage, Chairman.                     |
| Nebraska.....     | Deshler.....        | May 12, 8 P.M.....    | Labor and material for water works system, inc. pumping station, complete; tubular well; deep well, power pump; gasoline engine; steel tank and tower; pipe line distribution system.....  | W. E. Philby, Village Clerk.                |
| Louisiana.....    | Ft. St. Philip..... | May 15, 10 A.M.....   | Constructing water and sewer system at Fort.....   | Capt. Arthur Cranston, U. S. Army.          |
| Colorado.....     | Canon City.....     | May 15.....           | New water supply systems; cost, \$250,000.....   | M. A. Earl & Co., Muskogee, Okla.           |
| Nebraska.....     | Hildreth.....       | May 15.....           | Constructing water works, to cost \$10,000.....  | W. F. Sapp, City Clerk.                     |
| Iowa.....         | Council Bluffs..... | May 18, 4 P.M.....    | Constructing water works plant, embracing power plant complete, settling reservoirs, distributing system and high-pressure reservoir. S. L. Etnyre, City Engineer.....                     | H. L. Whiteford, Pres. Indus. Inst.         |
| Mississippi.....  | Columbus.....       | May 30.....           | Plans, etc., for bldg. 50,000-gal. steel tank on 100-ft. steel tower.....  | W. S. Merkel, St. Louis, Mo., C. E.         |
| Illinois.....     | Grafton.....        | June 1.....           | Constructing \$22,000 water works and electric light plant.....  |   |

## Sewerage

|                                |                     |                       |  |  |
|--------------------------------|---------------------|-----------------------|--|--|
| Dist. of Col'b'a. Indiana..... | Washington.....     | April 29, noon.....   | Constructing sewers.....   | Jay J. Morrow, Eng'r Com'r.                  |
| Indiana.....                   | Madison.....        | April 30, 10 A.M..... | Sewer work, etc., for Bldgs., Southeastern Hospital.....   | Com'r's Southeastern Hosp., Ind'p'lis.       |
| Pennsylvania.....              | Norristown.....     | April 30, 8 P.M.....  | Furnishing sewer pipe, curb, etc.....  | C. S. Cameron Corson, Engineer.              |
| Saskatchewan.....              | Prince Albert.....  | April 30, 8 P.M.....  | Laying 17,350 ft. sewers, brick manholes, catch basins, etc.....   | R. S. Cook, Mayor.                           |
| Ohio.....                      | Canton.....         | May 1, noon.....      | Constructing sewers, 4 sts., inc. 2,760 ft., 10-in.; 6,800 ft. 8-in.; 3,88 ft. 6-in.; 8,375 ft. 4-in. vit. pipe sewers.....  | J. A. Starrett, City Engineer.               |
| Washington.....                | Hoquiam.....        | May 1, 7 P.M.....     | Bldg. 8 and 6-in. vit. pipe sewers, 1st, 5th to 9th St., etc.....  | Z. T. Wilson, City Clerk.                    |
| Minnesota.....                 | St. Paul.....       | May 1, 7:30 P.M.....  | Constructing concrete sewer.....   | C. H. Meyer, City Clerk.                     |
| Minnesota.....                 | Red Wing.....       | May 1, 7:30 P.M.....  | Bldg. 500 ft. 3½ x 5 ft. and 800 ft., 6 ft. concrete sewers.....   | C. H. Meyer, City Clerk.                     |
| Utah.....                      | Salt Lake City..... | May 1, 8 P.M.....     | Constructing pipe sewers in Exten. No. 185.....  | L. C. Kelsey, City Engineer.                 |
| Virginia.....                  | Roanoke.....        | May 1.....            | Bldg. sewers Franklin road, Bluff, Maple, Roanoke Aves.....  | W. B. Bates, City Engineer.                  |
| Illinois.....                  | Anna.....           | May 1.....            | Constructing sanitary sewers, to cost \$20,000.....  | J. L. Hammond, City Clerk.                   |
| Wisconsin.....                 | Beloit.....         | May 2.....            | Constructing storm sewers.....   | Rob't Caldwell, City Engineer.               |
| Virginia.....                  | Roanoke.....        | May 4, noon.....      | Constructing sewers in 7th St. and an alley.....   | W. E. Thomas, Clerk of Council.              |
| Connecticut.....               | New Haven.....      | May 4, 2 P.M.....     | Constructing sewers, etc., in six streets.....   | C. W. Kelly, City Engineer.                  |
| Kansas.....                    | Lawrence.....       | May 4, 5 P.M.....     | Bldg. main sewer, Bewa Ave., inc. 330 ft. 10-in., 700 ft. 8-in. pipe; also lateral, inc. 575 ft. 8-in., 75 ft. 6-in. pipe, etc.....  | F. D. Brooks, City Engineer.                 |
| Missouri.....                  | Webb City.....      | May 4, 5 P.M.....     | Bldg. 1.62 miles sewer; 2.55 miles laterals; cost, \$31,698.....   | W. E. Smith, City Engineer.                  |
| New York.....                  | White Plains.....   | May 4, 8 P.M.....     | Bldg. addition to sewage disposal works; 2 plans.....  | John J. Brown, Village Pres.                 |
| Pennsylvania.....              | Greensburg.....     | May 4, 8 P.M.....     | Bldg. 540 ft. 24-in., 1,200 ft. 12-in., 830 ft. 10-in. sewer; also 770 ft. 15-in., 1,500 ft. 10-in. in N. Main St.....   | Borough Engineer Mitchell.                   |
| Georgia.....                   | Macon.....          | May 4.....            | Constructing 2,000 ft. 12-in. pipe sewers.....   | C. J. DuBois, City Engineer.                 |
| Pennsylvania.....              | Altoona.....        | May 4.....            | Constructing five sewers.....  | G. A. McFalls, City Engineer.                |
| Pennsylvania.....              | Beaver.....         | May 5, 8 P.M.....     | Constructing approximately ten miles to 6 to 15-in. sewer; also 75 manholes and 25 flushes.....  | J. P. Leaf, Boro. Engineer.                  |
| Indiana.....                   | Normal City.....    | May 5.....            | Bldg. main outlet: 15 to 24-in. pipe, 2 x 3 ft. brick sewer.....   | Jas. G. Mendenhall, 319 N. Dill St., Muncie. |
| California.....                | Oakland.....        | May 6, 11 A.M.....    | Labor and material for intercepting sewer on Second St. from Jackson to Oak St., with outlets, etc.....  | W. B. Fauchett, Sec'y Bd. Pub. Wks.          |
| Ohio.....                      | Youngstown.....     | May 8.....            | Furn. material and sewerizing portion of Dewey St.....   | W. H. McMillin, Clk. B. P. S.                |
| New York.....                  | Mt. Kisco.....      | May 11, 8 P.M.....    | Constructing about 13 miles sewers, i. & c. trunk sewer.....   | Fre'l Carpenter, Clk. Bd. Trus.              |
| Louisiana.....                 | Ft. St. Philip..... | May 15, 10 A.M.....   | Constructing sewer and water system at post.....   | Capt. Arthur Cranston, U. S. Army.           |
| Missouri.....                  | Cape Girardeau..... | May 18, 7:30 P.M..... | Bldg. complete sewer system for Sewer Dist. No. 1.....   | C. C. Hawley, City Engineer.                 |
| Mississippi.....               | Gulfport.....       | May 26, 8 P.M.....    | Labor and material: 15,190 ft. 24 to 6-in. vit. pipe sewers and 2 concrete bulkheads for outfall; 23 manholes; 36 catch basins, 10 gutter basins, etc.....   | M. F. Sullivan, City Engineer.               |
| Ontario.....                   | Osnabruck Centre    | June 1, noon.....     | Constructing Grantley Creek drain; cost, \$14,106.77.....  | Magwood & Walker, Cornwall Engineers.        |
| Michigan.....                  | Saginaw.....        | June 1.....           | Constructing pipe sewers, to cost \$25,000.....  | R. W. Roberts, City Engineer.                |
| Louisiana.....                 | New Orleans.....    | June 30, 3 P.M.....   | Furn. and erecting two 100 k.w., 250 volt., dir. con. generators; two 75 h.p., 250 volt motors; one 2,500,000-gal. turbine pump and 1,000,000-gal. triplex pump, to work against 125-ft. head, dir. con. to electric motor; 2,000,000 cen. pump; two 4,000,000 cen. pump units; two 5 h.p. 250 volt motors; one surface condenser, 6,500 lbs. steam per hr.; air pump; piping, valves, wiring, switchboard, etc..... | George G. Earl, Gen. Supt. S. & W. Board.    |

## Public Buildings

|                   |                      |                       |  |  |
|-------------------|----------------------|-----------------------|--|--|
| Indiana.....      | Madison.....         | April 30, 10 A.M..... | Completing various bldgs., etc., Southeastern Hospital.....      | Foltz & Parker, Ind'p'lis, Archs.            |
| Virginia.....     | Fortress Monroe..... | April 30, 10 A.M..... | School buildings at post.....                                    | Capt. E. R. Tilton, O. M.                    |
| Iowa.....         | Henderson.....       | April 30, noon.....   | Bldg. 4-room brick school; O. A. Houghland, Chariton, Arch.....  | Chas. S. Swaney, Clk. Bd. Edu'n.             |
| Pennsylvania..... | Danville.....        | April 30, noon.....   | Bldg. block of houses for employees, State Hosp. for Insane..... | T. P. Reitmeyer, W. msb'g, Arch.             |
| Iowa.....         | Osage.....           | April 30, 1 P.M.....  | Bldg. school, Ind. Sch. Dist. o' Grant, W. Lincoln.....          | Geo. A. Stoughton, Architect.                |
| Minnesota.....    | Worthington.....     | April 30.....         | Erecting school house in School Dist. No. 6.....                 | J. M. Kimmel, Clk. Bd. Trus. R. F. D. No. 3. |
| Wisconsin.....    | Milwaukee.....       | April 30.....         | Constructing 10-room addition to school.....                     | F. M. Harbach, Sec'y School Dirs.            |
| Wisconsin.....    | Milwaukee.....       | April 30.....         | Bldg. ro-room addition to 15th Dist. School, No. 2.....          | Com. of Bldgs. School Bd.                    |
| Ohio.....         | Delaware.....        | May 1, noon.....      | Bldg. brick hospital, Girl's Industrial School.....              | Marriott & Allen, Col'bus, Arch'ts.          |
| Michigan.....     | Flint.....           | May 1, 1 P.M.....     | Bldg. 12-room grade school in Fifth Ward.....                    | W. C. Lewis, Sec'y Bd. Edu'n.                |
| Illinois.....     | Maywood.....         | May 1, 8 P.M.....     | Bldg. 2-story brick school for school Dist. No. 89.....          | R. F. Foster, Sec'y Bd. Edu'n.               |
| Virginia.....     | Colpeper.....        | May 1.....            | Building new jail and jailer's residence.....                    | W. E. Coons, Clk. Co. Supervisors.           |

## Public Buildings—Continued.

|                     |                        |                      |   |  |
|---------------------|------------------------|----------------------|---|--|
| Pennsylvania..      | New Castle.....        | May 1.....           | Erecting 3-story brick and stone high school, 200 x 190 feet, estimated cost, \$250,000.....                              | W. G. Echles, Architect.                     |
| Mississippi.....    | Natchez.....           | May 1.....           | Bldg. \$25,000 brick school, brick and stone, fire proofing, etc.....   | Ben Ginsenborg, Chm. School Bd.              |
| Ohio.....           | Hamilton.....          | May 2, noon.....     | Addition to 2 bldgs., heating, etc., separate bids.....   | John Keller, Clk. Bd. Educ'n.                |
| Ohio.....           | Sidney.....            | May 2, noon.....     | Bldg. brick or cement block school, Dist. No. 7, Turtle Crk. twp.   | J. W. Sharp, Bd. Educ'n. Turtle Crk. Twp.    |
| North Dakota.....   | Douglas.....           | May 2, 2 P.M.....    | Bldg. 2 frame school houses.....  | H. J. Young, Clk., School Bd.                |
| Kansas.....         | Coffeyville.....       | May 2, 7:30 P.M..... | Bldg. 2-story brick and stone school; also heating, etc.....  | Henderson Lundberg, Archs.                   |
| Kentucky.....       | Bardstown.....         | May 2.....           | Erecting school; Brinton B. Davis, Louisville, Arch.  | Trustees Graded Public School.               |
| Virginia.....       | Charlotte, C. H. ....  | May 2.....           | Bldg. brick school; C. M. Robinson, Arch., 10th & Main Sts. Richmond.....   |  |
| New York.....       | New York.....          | May 4, 11 A.M.....   | Alterations, repairs, etc., 15 school bldgs.....  | D. Q. Eggleston, Chm. Bldg. Com.             |
| North Carolina..... | New Berne.....         | May 4, noon.....     | Install low-pres. steam heat. system in Co. Court House.....  | C. B. J. Snyder, Supt. School Bldgs.         |
| North Dakota.....   | Inkster.....           | May 4, 1 P.M.....    | Bldg. 8-room brick school; heating, etc., separate.....   | R. B. Lane, Register of Deeds.               |
| California.....     | Los Angeles.....       | May 4, 2 P.M.....    | Constructing jail building at Toluka.....   | Geo. C. Russell, Clk. School Bd.             |
| Maine.....          | Ba Harbor.....         | May 4, 3 P.M.....    | Constructing, complete, U. S. Post Office.....  | C. G. Keyes, County Clerk.                   |
| Minnesota.....      | Long Prairie.....      | May 4, 4 P.M.....    | Bldg. school; separate bids for heating and plumbing.....   | James Knox Taylor, Wash., D. C.              |
| New Jersey.....     | Plainfield.....        | May 4, 8 P.M.....    | Erecting new Police Headquarter's Building.....   | Fremont D. Orff, Minn. P'tis, Arch.          |
| Mississippi.....    | Port Gibson.....       | May 4.....           | Installing steam heating plant in Court House and jail.....   | Tracy & Swartout, Architects.                |
| Kansas.....         | Coffeyville.....       | May 4.....           | Erecting \$20,000 school; Henderson & Lundberg, Archs.  | A. K. Brashear, Clk. Co. Superv.             |
| Missouri.....       | Fayette.....           | May 5, 10 A.M.....   | Erecting poor house bldg. on County Farm.....   | Wm. M. Sinclair, Bd. Education.              |
| Minnesota.....      | Hastings.....          | May 5, 10 A.M.....   | Installing plumbing at Dakota Co. Poor House.....   | W. D. Settle, County Clerk.                  |
| Ohio.....           | Bryan.....             | May 5, noon.....     | Repairs to Central School building.....   | P. A. Hoffman, County Auditor.               |
| South Carolina..... | Charleston.....        | May 5, noon.....     | Remodeling old police barracks for S. C. Mil. Academy.....  | Silas Peoples, Clk. Bd. Educ'n.              |
| Illinois.....       | St. Charles.....       | May 5, 2 P.M.....    | Bldg. 2-story fire-proof hospital, School for Boys.....   | Todd & Benson, Exch. Bank Bldg., Architects. |
| Minnesota.....      | St. Paul.....          | May 5, 3 P.M.....    | Completing tower on Federal Building.....   | W. Carlys Zimmerman, Chicago Arch.           |
| New York.....       | New York.....          | May 5, 3 P.M.....    | Enlarging, extending, etc., U. S. Assay Office.....   | James Knox Taylor, Wash., D. C.              |
| Kansas.....         | Lawrence.....          | May 5, 3:30 P.M..... | Bldg. mechanical laboratory and power house.....  | John F. Stanton, Topeka, State Ar't.         |
| Pennsylvania.....   | Allentown.....         | May 5, 5 P.M.....    | Bldg. 8-room school; Ruhe & Lange, Architects.....  | T. P. Wenner, Sec'y School Dist.             |
| Pennsylvania.....   | McKees Rock.....       | May 5.....           | Erecting fire escapes on 2 schools.....   | J. K. Henry, 70 Highland Ave.                |
| Arkansas.....       | Ft. L. H. Roots.....   | May 5.....           | Bldg., wiring, etc., addition to hospital.....  | Constr. Q. M., U. S. Army.                   |
| Iowa.....           | Muscatine.....         | May 6, noon.....     | Bldg. addition to Lincoln School; also heating, etc.....  | H. W. Zeidler, Architect.                    |
| Ohio.....           | Canton.....            | May 6, noon.....     | Low pressure steam heat system in high school.....  | W. C. Lane, Clk. Bd. Educ'n.                 |
| Illinois.....       | Harrisburg.....        | May 6, 2 P.M.....    | Bldg. 6-room school; brick and stone, steam heat, etc., \$12,000. Architects.....   | Spencer & Temple, Champaign, Architect.      |
| Iowa.....           | Williamsburg.....      | May 6.....           | Erecting high school; G. M. Kerns, O'tumwa, Arch.....   | R. W. Pugh, Sec'y School Bd.                 |
| Iowa.....           | Council Bluffs.....    | May 6.....           | Bldg. 4-room school; F. E. Cox, Architect.....  | D. L. Ross, Sec'y School Dist.               |
| North Dakota.....   | Hatton.....            | May 6.....           | Erecting \$20,000 brick school.....   | Board of Education.                          |
| New York.....       | New York.....          | May 7, noon.....     | Bldg. new ferry house, Man. terminal, Whitehall St.....   | Allen N. Spooner, Com'r Docks.               |
| Connecticut.....    | Meriden.....           | May 7, noon.....     | Erecting State armory, Chas. S. Palmer, Arch.....   | Adjutant General, Hartford.                  |
| Missouri.....       | Webster Grove.....     | May 7.....           | Bldg. 2 schools; M. P. McArdele, Arch., Chemical Bldg., St. Louis   | Bd. Directors, School Dist.                  |
| North Dakota.....   | Lisbon.....            | May 7.....           | Erecting armory, plans of Hazby & Gillespie, Fargo, Arch'ts.....  | S. D. Adams, Sec'y Armory Bd.                |
| Ohio.....           | Ashtabula.....         | May 9, noon.....     | Low-pressure comb. steam heat, etc., plant, 8-room school.....  | J. L. Wilson, Architect.                     |
| Arizona.....        | Douglas.....           | May 9, 1 P.M.....    | Constructing detention hospital for County.....   | Dr. W. A. Greene, Co. Supt. of H'th.         |
| Oregon.....         | Eugene.....            | May 9, 3 P.M.....    | Constructing, complete, U. S. Post Office.....  | James Knox Taylor, Wash., D. C.              |
| Pennsylvania.....   | Phoenixville.....      | May 9.....           | Constructing State Ar'my.....   | State Ar'my Board, Harrisburg.               |
| Connecticut.....    | New Britain.....       | May 10.....          | Remodeling City Hall; McKim, Mead & White, N. Y. City, Architects.....  | City Hall Commission.                        |
| Minnesota.....      | Duluth.....            | May 11, noon.....    | Erecting County Court House; bid as whole or separate.....  | Geo. H. Clapp, Sec'y Com'n.                  |
| Indiana.....        | Madison Twp.....       | May 11, noon.....    | Bldg. brick school; N. O. Kelley, Trus. R. route, Mish. No. 1.....  | Freyermuth & Maurer, South Bend, Architects. |
| California.....     | Los Angeles.....       | May 11, 2 P.M.....   | Bldg. 2-story and base. annex to Co. jail, etc.; separate bids.....   | C. G. Keyes, County Clerk.                   |
| Michigan.....       | Houghton.....          | May 11, 2 P.M.....   | Erecting library and museum bldg., Mich. Col. of Mines.....   | Charlton & Kuenzli, Marquette, Archts.       |
| Maine.....          | Calais.....            | May 11, 3 P.M.....   | Constructing, complete, Federal Building.....   | James Knox Taylor, Wash., D. C.              |
| Ohio.....           | Cincinnati.....        | May 11.....          | Bldg. School; Tietig & Lee, Archts., Com-Trib. Bldg.....  | Dr. J. M. Withrow, Chm. Bd. Ed'n.            |
| Washington.....     | Seattle.....           | May 11.....          | Bldg. armory, etc., complete; cost, \$130,000.....  | Kerr & Rodgers, Architects.                  |
| Arkansas.....       | Little Rock.....       | May 12, noon.....    | Erecting a library; also plumbing, heating, wiring.....   | Charles L. Thompson, Architect.              |
| New York.....       | New York.....          | May 12, 3 P.M.....   | Remodeling U. S. Assay Office.....  | James Knox Taylor, Wash., D. C.              |
| New York.....       | Albany.....            | May 14, 3 P.M.....   | Bldg., complete, bldgs. at Midd. & Bing. State hospitals.....   | E. E. McGarr, Sec'y St. Com'n, Lunacy.       |
| Pennsylvania.....   | Wilkes-Barre.....      | May 15, 2 P.M.....   | Painting, decorating, etc., interior new Court House.....   | James M. Norris, Co. Controller.             |
| Ohio.....           | Madisonville.....      | May 15.....          | Bldg. \$100,000 24-room school; J. R. Klein, Clk. Bd. Educ'n.....   | Dlausmith & Drainie, Archs., Cinc'ti.        |
| Porto Rico.....     | San Juan.....          | May 15.....          | Constructing a military hospital.....   | Wm. S. Patten, Q. M., N. Y. City.            |
| Connecticut.....    | New Britain.....       | May 16, 3 P.M.....   | Constructing, complete, U. S. Post Office.....  | James Knox Taylor, Wash., D. C.              |
| Minnesota.....      | Gilbert.....           | May 16.....          | Erecting \$50,000 high school.....  | Bray & Kystrom, Duluth, Archs.               |
| North Dakota.....   | Jamestown.....         | May 16.....          | Erecting new \$75,000 bldg. for State Hospital for Insane.....  | M. E. Beebe, Fargo, Arch't.                  |
| Ohio.....           | Ironton.....           | May 19, 10 A.M.....  | Fixtures and furniture for new County Court House.....  | A. C. Robison, County Auditor.               |
| Georgia.....        | Thomaston.....         | May 19.....          | Building 3-story County Court House; cost, \$50,000.....  | M. H. Sandwich, Clk. Co. Com'rs.             |
| New York.....       | Buffalo.....           | May 21, 3 P.M.....   | Constructing, complete, U. S. Marine Hospital.....  | James Knox Taylor, Wash., D. C.              |
| South Carolina..... | Chester.....           | May 25, 3 P.M.....   | Constructing, complete, U. S. Post Office.....  | James Knox Taylor, Wash., D. C.              |
| Virginia.....       | Richmond.....          | May 25.....          | Plans for ad. and imp. to library bldg., etc.; cost, \$85,000.....  | Geo. P. Mundy, Sec'y Capitol Com'n.          |
| Alabama.....        | Florence.....          | May 26, 3 P.M.....   | Constructing, complete, U. S. Post Office.....  | James Knox Taylor, Wash., D. C.              |
| Texas.....          | Houston.....           | May 28, 3 P.M.....   | Constructing, complete, Federal Building.....   | James Knox Taylor, Wash., D. C.              |
| Mississippi.....    | Agricultural Col. .... | May 31.....          | Bldg. \$100,000 chapel and academic bldg., complete.....  | A. J. Moore, Sec'y A. & M. College.          |
| Nebraska.....       | Grand Island.....      | June 1, 3 P.M.....   | Constructing, complete, U. S. Post Office.....  | James Knox Taylor, Wash., D. C.              |
| New York.....       | Albany.....            | June 2, noon.....    | Constructing N. Y. State Education Bldg., Washington St.....  | R. H. Fuller, 63 Wm. St., N. Y. City.        |
| Minnesota.....      | New Ulm.....           | June 2, 3 P.M.....   | Constructing, complete, U. S. Post Office.....  | James Knox Taylor, Wash., D. C.              |
| Virginia.....       | Richmond.....          | June 2.....          | Comp. designs for comb. market and armory; also bids for erecting bldg., inc. arch's. fee; cost, \$100,000.....           | C. E. Bolling, City Engineer.                |
| Wisconsin.....      | Rhineland.....         | July 20.....         | Constructing 3-story Court House; cost, \$100,000; stone, fire-proof construction, 120x95 ft. A. Taylor, Chm. Co. Com'rs. | C. H. Tegen, Manitowoc, Arch.                |
| Minnesota.....      | St. Paul.....          | August 1.....        | Competitive plans for Mechanical Arts High School, 62 rooms; Architects all over country invited to submit plans.         | Com. on Schools, School Bd.                  |

## Bridges

|                       |                     |                         |   |   |
|-----------------------|---------------------|-------------------------|---|---|
| Virginia.....         | Lynchburg.....      | April 30, 2:30 P.M..... | Bldg. reinforced concrete viaduct; cost, \$30,000.....  | H. L. Shaner, City Engineer.                      |
| Pennsylvania.....     | Dauberville.....    | May 1, 10 A.M.....      | Bldg. rein. concrete, 4-arch bridge, 75 ft. long.....   | A. L. Rhoads, County Controller.                  |
| Illinois.....         | Chicago.....        | May 1, 11 A.M.....      | Repairing west approach to 18th St. viaduct.....  | John J. Hanberg, Com'r Pub. Wks.                  |
| British Col'bria..... | Vancouver.....      | May 1, noon.....        | Mfr. and erecting super. 2 bridges over False Creek at Western Ave. and Granville St.; 2,000 tons structural steel..... | Waddell & Harrington, K.C.Mo., C.E. County Clerk. |
| Pennsylvania.....     | Mauch Chunk.....    | May 1, 2 P.M.....       | Repairing bridges.....  | Jas. M. Norris, County Contr.                     |
| Pennsylvania.....     | Wilkes-Barre.....   | May 1, 2 P.M.....       | Drawing and tightening bolts, paint, etc., 2 bridges.....   | Comm'r McKeon County.                             |
| Pennsylvania.....     | Smithport.....      | May 1.....              | Bridge repairs.....   | J. M. Norris, Co. Contr., Wilkes-B.               |
| Pennsylvania.....     | White Haven.....    | May 1.....              | Bldg. retaining wall and guard rail at bridge.....  | W. E. Cours, Culpeper, Clk. Circ. Ct.             |
| Virginia.....         | Rapidan.....        | May 1.....              | Bldg. 3-span steel bridge; concrete abut. and piers.....  | Wm. F. Black, County Clerk.                       |
| Ohio.....             | Cleveland.....      | May 2, 11 A.M.....      | Bldg. steel cone bridge, per Report No. 1824.....   | C. J. McKenna, County Auditor.                    |
| Texas.....            | Fort Worth.....     | May 4, 9 A.M.....       | Bldg. steel bridge, steel piers, concrete base; also bridge over Bear Creek; 12 ft. roadways on both.....               | C. A. Hint, County Clerk.                         |
| California.....       | Miramar.....        | May 4, 10 A.M.....      | Constructing bridge over Montecito Creek, near city.  | Jas. S. Peter, Chm. Co. Com'rs.                   |
| Pennsylvania.....     | Allentown.....      | May 4, 10 A.M.....      | Painting and repairing iron and steel bridges.....  | John W. Harbow, County Auditor.                   |
| Indiana.....          | South Bend.....     | May 4, 11 A.M.....      | Constructing concrete culvert in Penn township.....   | County Auditor.                                   |
| Indiana.....          | Delphi.....         | May 4, noon.....        | Constructing four bridges.....  | F. S. Hewes, Clk., Co. Superv.                    |
| Mississippi.....      | Gulfport.....       | May 4, noon.....        | Constructing \$10,000 draw bridge over river, near Morris Ferry.  | P. C. Remick, Co. Aud., Jefferson.                |
| Ohio.....             | Geneva.....         | May 4, 1 P.M.....       | Bldg. reinforced concrete culvert on Liberty St.....  | C. G. Keyes, County Clerk.                        |
| California.....       | Los Angeles.....    | May 4, 2 P.M.....       | Constructing 10-ft. pile trestle bridge.....  | County Auditor.                                   |
| Indiana.....          | La Porte.....       | May 5, 10 A.M.....      | Bldg. 3 bridges and one culvert, Michigan City.   | Charles H. Miller, County Auditor.                |
| Indiana.....          | Michigan City.....  | May 5, 10 A.M.....      | Bldg. 1 culvert and 3 bridges.....  | Charles Post, County Clerk.                       |
| California.....       | San Bernardino..... | May 5, 11 A.M.....      | Bldg. bridge over Santa Ana River at Mt. Vernon Ave.....  | Frank E. Ryan, Co. Auditor.                       |
| Indiana.....          | Greensburg.....     | May 5, 1 P.M.....       | Bldg. 4 rem. concrete and one steel bridge with concrete base....   | County Auditor.                                   |
| Indiana.....          | Rockville.....      | May 5, 1 P.M.....       | Constructing concrete piers for a bridge.....   | C. H. Faris, County Engineer.                     |
| Indiana.....          | Rushville.....      | May 5, 2 P.M.....       | Repairing a bridge.....   | D. M. Kain, Clk. Co. Com'rs.                      |
| Missouri.....         | Carrollton.....     | May 5.....              | Constructing 4 bridges.....   |   |
| Kansas.....           | Atchison.....       | May 5.....              | Bldg. 30 ft. concrete; also 18, 14 and 10 ft. culverts.   |   |

## Bridges—Continued

|                     |                       |                    |  |  |
|---------------------|-----------------------|--------------------|--|--|
| Indiana.....        | Columbus.....         | May 5.....         | Constructing three bridges.....  | County Auditor.                        |
| Indiana.....        | Washington.....       | May 5.....         | Constructing five bridges.....   | County Auditor.                        |
| Indiana.....        | Muncie.....           | May 6, 10 A.M..... | Constructing 2 bridges at Black's Mill & Smithfield.....   | Delaware County Commissioners          |
| Ohio.....           | Cleveland.....        | May 6, 11 A.M..... | Constructing steel-concrete bridge in Euclid twp.....  | A. B. Lea, County Engineer.            |
| Oklahoma.....       | Arapaho.....          | May 6.....         | Constructing 2 steel bridges in county.....  | Wm. B. Frame, County Clerk.            |
| Mississippi.....    | Vicksburg.....        | May 7, noon.....   | Bldg. steel bridge over Clear Creek on Road No. 23.....  | J. D. Laughlin, Chancery Clerc.        |
| New York.....       | Brooklyn.....         | May 7.....         | Bldg. bridge floor Metropolitan Ave. bridge.....   | J. W. Stevenson, Com'r bridges.        |
| Ohio.....           | Washington C. H. .... | May 8, 2 P.M.....  | Bldg. sub. and superstructure 2 bridges.....   | H. D. Chaffin, County Auditor.         |
| Indiana.....        | Fort Wayne.....       | May 9, 10 A.M..... | Steel bridge, 207 x 26 ft. with two 5-ft. walks, Clinton St. over St. Mary's River; also concrete abutments; also 41 concrete culverts, price per cu. yd. to include I-beams and exc.; also plank and I-beams for repair of bridges..... | Jos. Tonkel, Chm. Bd. Co. Com'rs.      |
| Oregon.....         | Vale.....             | May 9, 1 P.M.....  | Bldg. 80-ft. span; wood, steel or stone arch.....  | B. W. Mulkey, Clk. Co. Com'rs.         |
| Manitoba.....       | Virden.....           | May 10, noon.....  | Bldg. steel bridge, stone mason abutments, etc.....  | James F. C. Menlove, Sec'y-Treas.      |
| Idaho.....          | Rathdrum.....         | May 11.....        | Bldg. bridge over Coeur d'Alene River, near Lane, 140-ft. span, with approaches, over 1,000 ft.; comb. steel and wood or steel.  | County Commissioners.                  |
| South Carolina..... | Beaufort.....         | May 11.....        | Steel drawbridge at Port Royal Ferry, Whole Branch.  | W. F. Brown, C. E., Savannah, Ga.      |
| Ohio.....           | Hamilton.....         | May 12.....        | Repair of bridge abutment in Milford township.   | J. E. Brate, County Auditor.           |
| Texas.....          | Linton.....           | May 12.....        | Iron fence around court house.   | P. A. Hunter, County Judge.            |
| Georgia.....        | Kings Ferry.....      | May 14.....        | Furn. material and building steel drawbridge over river.   | G. Reuben Butler, Clk. Co. Com'rs.     |
| Virginia.....       | Culpeper.....         | May 14.....        | Building 3-span steel bridge at Rapidan.   | W. E. Coons, Clk. Circuit Court.       |
| Indiana.....        | Pittsburg.....        | May 15.....        | Erecting new bridges over Wabash river.  | Carroll County Com'rs, Delphi.         |
| Pennsylvania.....   | Deconston.....        | May 16.....        | Constructing 2 stone arch bridges.   | A. J. Leonard, Boro. Clk. R. D. No. 2. |
| Kentucky.....       | Pikeville.....        | May 18, noon.....  | Sub and superstructure bridge over Big Sandy River.  | John McDyer, Catlettsburg, C. E.       |
| Georgia.....        | Columbus.....         | May 27, noon.....  | Bldg. steel or rein. concrete bridge over river at Dill St.  | T. L. Gruard, Chm. Bridge Com.         |
| Minnesota.....      | Lanesboro.....        | May 30, noon.....  | Bldg. wooden bridges over Root River at Whalen.  | P. Abrahamson, Clk. Su.ervisors.       |

## Lighting and Electricity

|                   |                    |                       |   |                                       |
|-------------------|--------------------|-----------------------|---|---------------------------------------|
| Indiana.....      | Madison.....       | April 30, 10 A.M..... | Electrical equipment, tunnels, etc., new bldgs., State Hospital.  | Com'n Room 81, Capitol, Ind'p'lis.    |
| Minnesota.....    | Duluth.....        | April 30.....         | Constructing gas and water mains in certain streets.  | Edward K. Coe, City Engineer.         |
| California.....   | San Francisco..... | May 1, 11 A.M.....    | Electric motor, pump, pipe lines, etc., Army Gen. Hospital.   | Maj. Geo. McK. Williamson, Q. M.      |
| Ontario.....      | Oshawa.....        | May 1.....            | Lighting streets of Oshawa.   | J. A. Schofield.                      |
| New York.....     | White Plains.....  | May 1.....            | Depressed boiler and power house for Court House; bldg. central power plant and steam and return con. to new bldgs. | A. R. Wolff, Cons. Eng'r, N. Y. City. |
| Alberta.....      | Edmonton.....      | May 1.....            | Erecting bldg. for mun. electric light plant, to be operated by producer gas engines; cap. 700 kw.; cost, \$20,000. | R. R. Keely, City Engineer.           |
| Georgia.....      | Lafayette.....     | May 1.....            | Constructing electric lighting plant.   | J. A. Clements, City Recorder.        |
| Dist. of Col'b'a. | Washington.....    | May 4, 10:30 A.M..... | Furn. electric motor and other material, Isth. Canal Com'n.   | Col. H. F. Hodges, Canal Com'n.       |
| Kansas.....       | Topeka.....        | May 6, 2 P.M.....     | Furn. and installing two 30-kw. d. c. generator and engine.   | State Board of Control.               |
| Mississippi.....  | Natchez.....       | May 6.....            | Lighting streets for 5 years, from March 1, 1909.   | George T. Eisele, City Clerk.         |
| Ontario.....      | Bobeaygeon.....    | May 6.....            | Rock exc. for Little Bob power house; also bldg. cement flume.  | Jas. Lithgow, Sec'y Elec. Com'n.      |
| Alabama.....      | Montevallo.....    | May 8, noon.....      | Bldg. brick power plant and boiler room building.   | Wm. E. Spink, Arch., Birmingham.      |
| New York.....     | West Point.....    | May 11, noon.....     | Furn. and install electric and gas fixtures in Qrt's.   | Quartermaster, Mil. Academy.          |
| California.....   | Folsom City.....   | May 11.....           | Constructing electric light plant at Folsom Prison.   | State Bd. Prison Dirs.                |
| Kentucky.....     | Louisville.....    | May 12, noon.....     | Sale of Fetter electric light franchise.  | Board of Public Works.                |
| Colorado.....     | New Fort Lyon..... | May 16, 11 A.M.....   | Electric lighting system at Naval Hospital.   | Adm. R. C. Holliday, Wash., D. C.     |
| Louisiana.....    | New Orleans.....   | May 20.....           | Erecting boiler house and installing proper boiler cap.   | Adm. R. C. Holliday, Wash., D. C.     |
| Illinois.....     | Grafton.....       | June 1.....           | Constructing \$22,000 electric light plant and water works.   | W. H. Journey, Mayor.                 |
| Dist. of Col'b'a. | Washington.....    | June 16, 10 A.M.....  | Furn. quantity electrical hoist equipments, motors, etc., at Newport News, Va., and Quincy, Mass.                   | E. B. Rogers, P. M. Gen., U. S. Navy. |
| Louisiana.....    | New Orleans.....   | June 30, 3 P.M.....   | Electrical and pumping machinery, Algiers station.  | F. S. Shields, Sec'y S. & W. Bd.      |

## Miscellaneous

|                    |                    |                       |  |   |
|--------------------|--------------------|-----------------------|--|---|
| Ohio.....          | Col'bus Bar'cks.   | April 30, 10 A.M..... | Erecting bldg. for disinfecting plant; also install. plant.  | Capt. H. J. Hirsch, Q. M., U. S. A.                 |
| Illinois.....      | Chicago.....       | April 30, 11 A.M..... | Transporting garbage to reduction plant.   | John J. Hanberg, Com'r Pub. Wks.                    |
| Manitoba.....      | Brandon.....       | April 30.....         | Furnishing 4,000 to 5,000 bbls. Portland cement.   | Harry Brown, City Clerk.                            |
| Dist. of Col'b'a.  | Washington.....    | May 1, 10:30 A.M..... | Furnishing 4,500,000 bbls. Portland cement.  | Col. H. F. Hodges, Isth. Canal Com'n.               |
| New York.....      | New York.....      | May 1, noon.....      | Furnishing and delivering piles to Dock Dep't.   | Allen S. Spooner, Com'r Docks.                      |
| South America.     | Buenos Ayres.....  | May 1, 2 P.M.....     | Bldg. 2 underground electric railways, etc.  | Argentine Legation, Wash., D. C.                    |
| Quebec.....        | Quebec.....        | May 1.....            | Furnishing 30-ton capacity floating crane.   | St. George Boswell, Ch. Eng'r Harbor Commissioners. |
| Florida.....       | Key West.....      | May 1.....            | Constructing reinforced concrete sea wall 2,200 ft. long and fill in rear 250,000 cu. yds., at Fort Taylor.  | Capt. C. H. Lanza, Q. M., U. S. A.                  |
| Pennsylvania.....  | Greensburg.....    | May 1.....            | Erect and equip boiler house at County Home.   | W. G. Sloan, Architect.                             |
| New Jersey.....    | Allenhurst.....    | May 1.....            | Col. and disposal of garbage, etc., for year from May 9.   | G. B. Cade, Boro. Clerk.                            |
| Missouri.....      | St. Louis.....     | May 1.....            | Labor and material for bldg. boiler house, No. 2, Bissell's Point; four 350 h.p. boilers with stokers, etc.  | W. B. Dryden, Sec'y Bd. Pub. Imp.                   |
| New Jersey.....    | Tuckerton.....     | May 4, 11 A.M.....    | Dredging and improvement of Tuckerton Creek.   | C. A. F. Flagler, Wilm., Del., Maj. Engineers.      |
| California.....    | San Francisco..... | May 4, noon.....      | Bldg. sea wall, crib wall, wharves, etc., at Fort Mason.   | Quartermaster U. S. Army.                           |
| Pennsylvania.....  | McKeesport.....    | May 4, 4 P.M.....     | Furn. 1,000 ft. 2½-in. fire hose; bldg. wall No. 4 fire station.   | C. E. Soles, City Controller.                       |
| New Jersey.....    | E. Rutherford..... | May 4, 8 P.M.....     | Furn. and erecting fire escapes for municipal bldg.  | Chas. B. Johnson, Boro. Clerk.                      |
| California.....    | Sacramento.....    | May 4.....            | Further improvement of South Side Park.  | M. J. Desmond, City Clerk.                          |
| Wisconsin.....     | Juneau.....        | May 4.....            | Constructing Horicon drainage ditch; cost, \$400,000.  | Leonard S. Smith, C. E., Madison                    |
| New York.....      | Newark.....        | May 5, 10 A.M.....    | Installing, complete, one storage tank with steam coil and con. and hot water piping to 5 cottages.  | Chas. McLouth, Pres. N. Y. Cust. Asylum.            |
| Indiana.....       | Rockville.....     | May 5, noon.....      | Bldg. 2 rein. concrete piers in Wabash river; cost, \$5,000.   | W. B. La Bow, Veedersburg, C. E.                    |
| New Jersey.....    | Burlington.....    | May 5, 8 P.M.....     | Furn. 1,400 ft. double jacket, fire hose screw couplings.  | S. C. Stafford, Chm. Com. on Fire.                  |
| Massachusetts..... | Boston.....        | May 6, 10 A.M.....    | Bldg. rein. concrete wall, rip rap revetment, Ft. Warren.  | Capt. Ira L. Freckenhall, Q. M. U. S. A.            |
| New York.....      | West Point.....    | May 6, noon.....      | Furn. stone-crushing plant, steam engine and boiler.   | Quartermaster, Mil. Academy.                        |
| Delaware.....      | Wilmington.....    | May 7, 11 A.M.....    | Dredging Mantua Creek, at Mantua, N. J.  | C. A. F. Flagler, Maj. Eng'rs. U. S. A.             |
| Kentucky.....      | Hopkinsville.....  | May 7, noon.....      | Fixtures and machinery in bakeshop Ky. Asylum for Insane.  | Albert Scott, Bd. Com. Chari. Insti.                |
| Ohio.....          | Cincinnati.....    | May 7, noon.....      | Collection, removal and disposal of garbage, dead animals, etc., one and 5-year periods after June 1.  | Edwin Henderson, City Clerk.                        |
| Ohio.....          | Canton.....        | May 7.....            | Putting pipe tunnel in Stark County Infirmary.   | M. W. Oberlin, County Auditor.                      |
| New York.....      | New York.....      | May 8, noon.....      | Construction six sections Fourth Ave. subway, Brooklyn: (a) Flatbush Ave. extension, Nassau St. to Willoughby St., Manhattan Bridge, No. 1; (b) Willoughby St. to Ashland Place; (c) Fourth Ave. and Ashland Place to Fulton St. and Sackett St.; (d) Fourth Ave., Sackett St. to Tenth St.; (e) Fourth Ave., Tenth St. to 27th St.; (f) Fourth Ave., 27th St. and 43d St. | Public Service Com'n, 1st Dist.                     |
| Illinois.....      | Chicago.....       | May 9, 10 A.M.....    | Dredging Calumet River; bldg. dock, Chicago river.   | W. H. Dixby, Col. Eng'rs U. S. A.                   |
| Manitoba.....      | Wallace.....       | May 10.....           | Bldg. and installing telephone lines in rural municipality.  | Jas. F. C. Menlove, Sec'y-Treas.                    |
| Rhode Island.....  | Fort Adams.....    | May 11, 10 A.M.....   | Bldg. sea wall, removal of face cover, grading, filling, etc.  | Capt. Willis C. Metcalf, Q. M.                      |
| Ohio.....          | Columbus.....      | May 11, noon.....     | Constructing garbage reduction works, cap. 100 tons per 24 hrs., on city land, inc. design, bldg., delivery, etc.  | E. W. Hirsch, Sec'y Bd. Pub. Serv.                  |
| Texas.....         | Sinton.....        | May 12.....           | Bldg. iron fence around Court House; concrete or block base.   | P. A. Hunter, County Judge.                         |
| Indiana.....       | Fort Wayne.....    | May 12.....           | Furn. first-class fire engine, 2 or 3 horses.  | D. C. McCarthy, Clk. Fire Bd.                       |
| Kansas.....        | Leavenworth.....   | May 13.....           | Furn. 1,000 fire brick No. 1, 20,000 No. 2, 6,000 arch brick No. 1 stretchers, 12,000 lbs. fire clay; iron fittings for down draft brick kiln at U. S. Penitentiary.   | R. V. LaDow, Dept. Justice, Wash., D. C.            |
| Maine.....         | Portland.....      | May 14, noon.....     | Constructing a concrete wharf.   | Maj. Geo. A. Zinn, Const. Eng'r.                    |
| Florida.....       | Fort Dade.....     | May 15, 8 P.M.....    | Furn. & install. ice and distilling plant.   | Constructing Q. M. U. S. Army.                      |
| New York.....      | Fort Ontario.....  | May 20, 11 A.M.....   | Constructing iron and wire fence at post.  | A. R. Williams, Q. M., U. S. A.                     |
| Florida.....       | Fort Pickens.....  | May 20, noon.....     | Constructing sea wall.   | H. B. Ferguson, Capt. Engineers.                    |
| Rhode Island.....  | Ft. Adams.....     | May 21.....           | Sea wall.  | Capt. Willis C. Metcalf, Q. M.                      |

## STREET IMPROVEMENTS

**Anniston, Ala.**—Council has been directed to negotiate for the sale of \$50,000 paving bonds.—Address Mayor Bilby.

**New Haven, Conn.**—The Board of Finance has decided to issue \$100,000 bonds for paving purposes.—Address Clerk, Board of Finance.

**Jacksonville, Fla.**—A road or avenue 100 feet in width is to be established as speedily as possible by the county to the third mile post, and Orange Park Town Council has decided to extend the road from the county line south to connect with Kingsley avenue, in Orange Park, and to improve the roadway of Kingsley avenue from the railroad station to the wharf as soon as the funds to pay for it can be obtained.—Address Chairman Benedict of County Commissioners.

**Albany, Ga.**—An election will be held to decide the question of issuing \$30,000 Dougherty county road bonds.—H. A. Tarver, City Treasurer.

**Carbondale, Ill.**—E. A. Cox, City Engineer, has prepared plans for paving several streets with brick, on concrete foundations, and laying granite gutters.—F. M. Caldwell, City Clerk.

**Joliet, Ill.**—A petition for the paving of Nicholson street, between Western avenue and Campbell street, with asphalt, has been favorably acted upon by the members of the local Board of Improvements; a petition asking for the paving of Whittier avenue, between Western and Buell avenues, was also presented to the Board, but on motion of City Engineer Stevens action on it was deferred for further consideration; it will probably be ordered.

The first resolution for paving east and west alley, from Richards street to Western avenue, in the block between Washington street and First avenue, at an estimated cost of \$1,788.38, was received and placed on file and the public hearing on the improvement set for May 4.

The ordinance for the construction of a sidewalk on both sides of Bartleson street, between Sherman and Richards street, was adopted and ordered sent to Council and profiles for the construction of sidewalks on Glenwood avenue, Taylor and Washington streets were received and placed on file.—John R. Cronin, Mayor and Chairman.

**Mason City, Ill.**—State Engineer A. N. Johnson, of Springfield, has prepared estimates for paving certain streets with brick on concrete foundation.—Address City Clerk.

**Mt. Vernon, Ill.**—The city contemplates paving several streets with brick, on concrete foundations; plans are now being prepared by S. T. Maxey, City Engineer.—Geo. E. Green, City Clerk.

**Ft. Wayne, Ind.**—Frank Randall, City Engineer, has completed plans for asphalt paving; bids to be asked for shortly.—Frank Mungovan, City Clerk.

**Jasper, Ind.**—No bids were received by M. A. Sweeney, Auditor, Dubois county, April 7, for the construction of four miles and 80 feet of free turnpike road on certain highways in Bainbridge township, consisting of grading, draining and macadamizing said highways.

**Hartley, Ia.**—Estimates are being prepared for paving Main street.

**Iowa City, Ia.**—Council has directed estimates to be made for paving certain streets.

**Muncie, Ind.**—Estimates are being prepared for paving certain streets, at a cost of \$12,000.—Address Turner S. Johnson.

**Windfall, Ind.**—About \$175,000 will be expended by the County Commissioners for road improvements this summer.

**Newport, Ky.**—Property owners on East Tenth street have asked Council to construct a brick pavement on the thoroughfare; members of Council insist on macadam; some paving will be laid this spring.

**New Orleans, La.**—The matter of issuing \$20,000,000 bonds for street improvements is under consideration.

**Haverhill, Mass.**—A bond issue for \$20,000 for permanent street work has been recommended to Council by the Committee on Streets, Sidewalks and Bridges. The orders recommended for passage call for the macadamizing of Hillsdale avenue, on the easterly side northerly, at an expense of \$2,000. Councilman Kelliher agreeing to a cut of \$1,000 from the original order; macadamizing Keno avenue, from Fountain street to cover both sides and the car track, at a cost of \$5,000; macadamizing Groveland street, from Keeley, \$2,000; macadamizing Lafayette square easterly, \$3,500; macadamizing Elm street, Bradford district, westerly from Prospect street, \$2,000, which was a cut from the original order calling for \$2,700; macadamizing Main street, Bradford district, to Prospect street, \$2,000; macadamizing a strip 15 feet wide on Cedar street, from Eleventh avenue to Fourteenth avenue, \$1,750, and block paving Hale street, at a cost of \$2,000, with the provisions that the Boston and Maine Railroad pay an additional \$1,000.

**Lawrence, Mass.**—Council has decided that a loan be enacted, to be known as the Paving Loan of 1908, not to exceed \$40,000, for the purpose of paving Essex street with granite blocks, from Margin to Appleton street; the ordinance also provided that none but citizens of Lawrence should be employed upon the work, and that the work shall be done under the direction of the Superintendent of Streets.

**Bay City, Mich.**—The Board of Public Works has submitted to Council the following schedule of paving for the coming season, which has been approved, with the exception of the Salzburg avenue job: Fifth avenue, Water to alley between Jefferson and Madison, brick, 35 feet, \$6,562; Fifth avenue, east from above to Johnson, asphalt, 24 feet, \$19,920; Van Buren street, Columbus to Kosciusko, brick, 24 feet, \$17,350; Adams street, Center to Seventh, brick, 35 feet, \$5,839; Lafayette avenue, Broadway to bridge, brick, 30 feet, \$10,285; Salzburg avenue, Raymond to bridge, 30 feet, \$10,016; Henry street, South Union to North Union, brick, 24 feet, \$9,880; Belinda street, Water to bridge, brick, 24 feet, \$1,866; total, \$81,718. The streets represented that were not recommended were Water street, Sixth to McKinley avenue, and South Farragut street, Columbus to Lafayette avenues; other streets petitioned for were: Fifth avenue, Johnson to Park; Van Buren, Tenth to Columbus; Madison, Columbus to Lafayette; Sixth, Water to Van Buren; Jackson, Center to Columbus; State, Marquette to Elm; and Wenzona, Salzburg to Chestnut.

**Grand Rapids, Mich.**—Estimates for improving streets were received, as follows, from the Engineer, by the Board of Public Works: Grading and graveling Hall street, from Hilton to Grandville avenue, \$3,520; Coit avenue, grading and graveling, from Dean to Knapp avenue, \$6,810.

**Pontiac, Mich.**—Wm. J. Fisher, City Engineer, is preparing plans for 4,000 yards of brick paving in Oakland avenue and Water street; to have a base of 6-inch concrete, with 1,000 feet of curbing, manholes, etc.; estimated cost \$10,000; bids will probably be invited about June 1.—Jos. H. Thorpe, City Clerk.

**St. Paul, Minn.**—The County Surveyor has been instructed to prepare plans and specifications for a clay and gravel roadway 20 feet wide on Hamlin avenue, from city limits to Harrison road; also to repair a number of roads.—Edw. G. Krahmer, County Auditor.

**Vicksburg, Miss.**—The letting of contract for grading and graveling road No. 132, from the limits of Speed's Addition to Confederate avenue, has been postponed until a future date.—J. D. Laughlin, Chancery Clerk.

**Montclair, N. J.**—Plans have been prepared and bids will soon be received for the construction of hard roads estimated to cost \$10,000.—Kenneth D. Owen, Town Surveyor.

**North Plainfield, N. J.**—By guaranteeing 10 per cent. of the cost of the improvements, Council has made the macadamizing of Greenbrook road and the extension of Watchung avenue to Somerset street practically a certainty. The petition for these improvements was made to the County Board of Freeholders some time ago, but was recently returned for the insertion of the 10 per cent. clause.—Samuel Townsend, Mayor.

**Ft. Plain, N. Y.**—The Board of Village Trustees has directed estimates to be prepared for paving certain streets, estimated to cost \$24,000.—Address Clerk, Board of Trustees.

**Herkimer, N. Y.**—At a meeting of the Board of Village Trustees a committee from the Business Men's Association appeared and presented a petition asking for a special election, at which the proposition should be submitted that the village be bonded for \$50,000 to continue the work of paving the streets of the village. The petition was placed on file and the necessary steps taken to arrange for the election. The petition was signed by over fifty resident taxpayers.—Address President Kern.

**Penyan, N. Y.**—The Commissioners of the County, in conjunction with the State Highway Commissioner, will construct a \$10,000-a-mile State road through the county; it is possible that brick will be used for this immense improvement.

**Poughkeepsie, N. Y.**—The Board of Public Works has voted to pave Main street, from Cherry street east to the city line; the pavement will be of brick.

**Rochester, N. Y.**—Council has re-enacted a large number of public improvement ordinances, such action being necessary since Mayor Edgerton's anti-graft bill became a law: the pavement ordinances re-enacted as first ordinances included Hollister street, estimated cost \$17,000; Landsdale street, \$10,000; Pembroke street, \$10,000; Nelson street, \$6,500; Winters street, \$1,950; Meigs, from Caroline to Linden, \$8,000; Meigs, from Caroline to Rockingham, \$16,000; Albemarle street, \$24,000; others will come up at the next meeting. New streets for which

first ordinances were passed included Huntington street, \$6,800; Seward, \$7,500; Flower City park, \$14,000. There were also first ordinances for Culver road cement walks, Charlotte street relaying walks, Dengler and Lang street walks, Alexander street repairs to pavement between East and Monroe avenues, Manhattan; Morrill and Foster streets walks, extensions of Normandy avenue, Woodbine avenue and Warwick avenue to Arnett street, and the opening and extension.

By request of Alderman Foery, the ordinance passed for the improvement of Joseph avenue was reconsidered and indefinitely postponed; a committee of taxpayers from the avenue is trying to find out the kind of pavement desired.

**Bellaire, O.**—Council will soon advertise for bids for paving Central avenue, for reconstructing curbs and sidewalks on Franklin street, and about half a dozen other smaller streets; it is proposed to pave with hard burned paving blocks of either hillside or ordinary variety.

**Cleveland, O.**—Bids will be received, May 4, noon, for \$616,000 5 per cent. street improvement bonds.—Thomas Coughlin, City Auditor.

**Coshocton, O.**—The City Clerk will advertise for bids at once for paving Chestnut street, from Twelfth to Fifteenth streets; the City Engineer will investigate the matter of constructing a sewer in the district first.

**Dayton, O.**—Bids will be received, May 11, for the purchase of issue of \$40,000; also of \$14,500 street improvement bonds; interest 4 per cent.—Edward Phillips, City Auditor.

**Delaware, O.**—The pavement of Lincoln avenue, from Sandusky street to Camel street, has been authorized by Council; plans for paving Williams street and one or two other leading streets are being prepared; a large number of street improvement resolutions have just passed Council.—F. D. King, City Auditor.

**Delphos, O.**—Council has directed J. J. Kelly to employ an engineer to prepare specifications for paving Main, Second, Third and Fifth streets, with brick.

**Fostoria, O.**—A petition for paving West High street is in circulation, and will be favorably acted on by Council; a \$52,000 bond issue for street improvements has already been authorized.

**Lancaster, O.**—Property owners on Harrison avenue have asked Council to pave that street and construct curbing from Wheeling street to Sixth avenue.

**Mansfield, O.**—Pavement of East Third street, to cost \$7,500; Blimer avenue, to cost \$6,300; and West First street, to cost \$3,400; Franklin avenue, Prescott street, Chestnut street, costing about \$14,000; have been agreed on; paving of North Bowman street is also to be undertaken this summer.

**Mingo, O.**—The Village Council has decided to widen, pave and sewer North Commercial street this summer; plans will be immediately prepared.

**Paulding, O.**—The issue of \$49,000 5 per cent. pike road bonds have been purchased by the Paulding National Bank, at a premium of \$1,340.

**Richwood, O.**—The Council of the Village has awarded \$62,000 worth of 4½ per cent. paving bonds for the improvement of Franklin street, to the New First National bank, of Columbus, at a bid of \$666 premium.

**Springfield, O.**—Council has passed the largest list of ordinances and resolutions for municipal improvement in the history of the city, including the pavement of a dozen alleys, the macadamizing, curbing and guttering of a large number of streets, and the expending of \$40,000 for laying additional water mains; all improvements to be underway as soon as plans can be prepared.

Engineer Bahin estimates that it will cost \$4,046 for paving the first alley west of Wittenberg avenue, from Washington to Columbia street; the city's share will be \$60,22; property owners' \$3,085.78; rate \$1.94 per foot; the estimate was referred to Council.

W. H. Mahoney, Clerk, will soon invite bids for grading, macadamizing, curbing and guttering a number of alleys and streets in the town, together with the construction of several large sewers, as soon as the final legislation is enacted.

Council will grade and macadamize Burt street, pave Kenton, Center, Fisher and curb and gutter and macadamize Grand avenue; grade and macadamize Kenton street; pave Pleasant street; half a dozen alleys; plans for which will be ready for contractors in a few days.

L. M. Harris, City Auditor, will open bids, May 12, for sewer bonds aggregating \$2,748.92, with interest at 5 per cent. per annum; also for \$739.61 bonds; also for \$3,223.66, and for \$2,611.27, \$1,050.46, \$5,866.18, \$5,357.18, \$621.98, \$606.55, all due and payable from 1909 to 1913, with interest at 5 per cent. per annum, payable semi-annually; proceeds are for street improvements; bids

will be opened on the same day for \$50,000 street improvement bonds.

**Springfield, O.**—Bids will be received, May 12, for the purchase of \$50,000 4½ per cent. street improvement bonds.—L. M. Harris, City Auditor.

**Toledo, O.**—John M. Babcock, Clerk of Council, will soon advertise for bids for paving Western avenue and the alley between Superior street and Huron street with vitrified paving blocks, sheet asphalt, creosoted wood blocks, laid on a foundation of concrete; also for the paving of Troy street, under the same specifications.

**Youngstown, O.**—Council has decided to grade, drain and improve Garlick street, from Mt. Pleasant to Lydia street; also to widen and straighten Wick avenue.—A. W. Craver, Mayor.

The Board of Public Service will recommend to Council the paving of West avenue from Marshall street to West Rayen avenue, and Garlick street from Mahoning avenue to Marshall street.

Council has decided to repair Wick avenue, from Wood street to East Madison avenue.—M. F. Hyland, Clerk.

**Allentown, Pa.**—The Mayor has been authorized to advertise for bids for the paving of streets authorized thus far, the award to be in one general contract for all the streets.

The Highway Committee reported favorably on a number of crossings and street repairs; a new batch of resolutions along the same line was introduced.—C. D. Weirbach, City Engineer.

**Altoona, Pa.**—The Board of Public Works, April 18, rejected all bids for street paving and postponed awarding the contracts to May 4; there were three bidders: Hagaman, Miller & Hagaman, of Rochester, N. Y.; Bowman Brothers, of McKeesport, and the Metropolitan Construction Company, of Canton, O., and the prices ranged about 12 per cent. higher than that of the Metropolitan Construction Company's bid on the work it is doing at the present time.

**Avalon, Pa.**—Bids will be received, May 1, 6 p.m., for \$85,000 4½ per cent., semi-annual bonds, of which \$75,000 will be used for grading, paving and curbing.—E. E. Custard, Borough Clerk.

**Bellevue, Pa.**—The Borough Councils have passed ordinances authorizing the improvement of several streets in the borough; this is in accordance with the plans decided upon by the borough as a result of the fight against annexation last winter, when Bellevue decided that it was not quite yet time to come into Greater Pittsburg; then a bond issue for \$100,000 was voted though unexpectedly, and this means now that upwards of \$300,000 is to be expended in public improvements in the borough this summer.

**Butler, Pa.**—The new Street Committee has been instructed to take up with the B. and O. Railroad Company the matter of a new overhead bridge on Lookout avenue. The company some months ago proposed to erect the bridge at its own expense, but the plans submitted did not meet with the approval of Council, and were handed back for revision. Since that time the matter has lain dormant.

**Erie, Pa.**—Council has adopted resolutions grading, curbing and paving Seventeenth street, from State to Parade; paving Reed street from Ninth to Fifteenth; paving Wayne street from Eighth to near Fifteenth; paving Eighth street from Parade to East avenue; directing new sidewalks on Short street, between Sassafras and Chestnut; directing Park Commissioners to advertise and award contract for grading Lakeside Park, from Holland to Parade street. Ordinances have been favorably considered for establishing grade of Perry street from Twentieth to Twenty-sixth, and Cascade street from Eighteenth to Twenty-sixth; for paving Eleventh street from East avenue to Pennsylvania.—B. E. Briggs, City Engineer.

**Morrisville, Pa.**—Residents are preparing to petition for State aid to macadamize Trenton avenue from Falls township line to the Delaware river; cost, \$8,000.

**Philadelphia, Pa.**—Council is considering appropriation of \$5,000 for analyzing asphalt used in city streets.

**Ft. Mills, S. C.**—An election will be held to decide the question of issuing \$10,000 school bonds and \$10,000 street improvement bonds.

**Greenville, S. C.**—Council has decided to pave certain portions of Main street.—Address James H. Morgan.

**Athens, Tenn.**—An election will be held in McMinn County in August to decide the question of issuing \$200,000 road bonds.

**Blountville, Tenn.**—An election will be held, May 16, to decide the question of issuing \$100,000 Sullivan County road improvement bonds.

**Knoxville, Tenn.**—The city will ask for bids on paving improvement districts 19 to 35, inclusive, within the next thirty days; it is probable that the majority of this work will be sheet paving, owing to the fact that

it is on residence streets; where street car tracks are laid the Knoxville Railway and Light Company, by ordinance, is required to pave with brick between the rails at its expense. S. D. Newton, City Engineer, has completed the approximated estimates on proposed new work, and within the next few days Council will advertise for bids and the work will be done under the abutting property law. The estimates of the amount of work are as follows:

District No. 19, Hill avenue, paving 4,310 square yards, concrete curb 2,600 lineal feet.

District No. 20, Asylum avenue, paving 12,700 square yards; concrete curb 5,250 lineal feet; storm sewer, 12-inch, 1,375 lineal feet; 15-inch, 425 lineal feet; 18-inch, 400 lineal feet; 24-inch, 625 lineal feet; and catch-basins, 18.

District No. 21, Oak avenue, paving 6,500 square yards; concrete curb 3,250 lineal feet; sanitary sewer, 8-inch, 925 lineal feet; 12-inch, 1,200 lineal feet; manholes, 2; catch-basins, 8.

District No. 22, Locust street, paving 1,825 square yards; concrete curb, 1,050 lineal feet; sanitary sewer, 8-inch, 700 lineal feet; catch-basins, 2.

District No. 23, Central Market, paving 2,960 square yards; concrete curb, 400 lineal feet; storm sewer, 12-inch, 300 lineal feet; catch-basins, 4.

District No. 24, Central street, paving 3,340 square yards; concrete curb, 820 lineal feet; storm sewer, 12-inch, 650 feet; catch-basins, 4.

District No. 26, Broadway, paving 4,850 square yards; concrete curb, 1,620 lineal feet; sanitary sewer, 8-inch, \$650 lineal feet; storm sewer, 12-inch, 700 lineal feet; manholes, 2; catch-basins, 4.

District No. 27, Seventh street, paving 3,010 square yards; concrete curb, 750 lineal feet; storm sewer, 15-inch, 1,350 lineal feet; catch-basins, 5.

District No. 28, Main avenue, paving 2,400 square yards; concrete curb, 175 lineal feet.

District No. 29, Fourth avenue, paving 17,760 square yards; concrete curb, 5,500 lineal feet; sanitary sewer, 8-inch, 2,250 lineal feet; storm sewer, 12-inch, 1,400 lineal feet; 15-inch, 550 lineal feet; manholes, 6; catch-basins, 7.

District No. 30, Luttrell street, paving 8,920 square yards; concrete curb, 3,570 lineal feet.

District No. 31, Deery street, paving 4,740 square yards; concrete curb, 2,220 lineal feet.

District No. 32, Locust street, paving 775 square yards; concrete curb, 275 lineal feet; sanitary sewer, 18-inch, 250 lineal feet; storm sewer, 12-inch, 250 lineal feet; manholes, 2; catch-basins, 4.

District No. 33, Union avenue, paving 1,725 square yards; concrete curb, 1,000 lineal feet; storm sewer, 15-inch, 350 lineal feet; catch-basins, 3.

District No. 34, Deaderick avenue, paving 5,750 square yards; concrete curb, 2,100 lineal feet; storm sewer, 15-inch, 300 lineal feet; catch-basins, 2.

District No. 35, Arthur street, paving 1,425 square yards; concrete curb, 650 lineal feet.

All of the paving is required, by the specification, to have under it a 6-inch concrete base. S. D. Newton has the specifications ready for the contractors.

**Tullahoma, Tenn.**—The city contemplates putting in 3,700 feet of concrete curbing, 20,000 feet of sidewalks and 10,000 square yards of vitrified paving; no plans and specifications made.—Doak Aydelott, Mayor.

**Orange, Tex.**—The Attorney General has approved issue of \$25,000 street improvement bonds.

**Paris, Tex.**—Bids will be received May 10 for the purchase of \$25,000 5 per cent. street improvement bonds, payable in the year 1958.—O. B. McKnight, City Secretary.

**San Antonio, Tex.**—The Commissioners' Court of Bexar County has under consideration an issue of \$250,000 bonds for building good roads.—Address County Auditor.

**Tyler, Tex.**—The election on April 14 on the proposition to issue \$10,000 paving bonds resulted in favor of the bond issue by a vote over 7 to 1.—John H. Bonner, Mayor.

**Salt Lake City, Utah.**—Council is arranging to lay cement walks on many streets.—G. B. Moreton, City Recorder.

**Keyser, W. Va.**—The question of issuing \$15,000 paving bonds is under consideration.

**Parkersburg, W. Va.**—Council has decided to expend \$50,000 for paving streets.

**Racine, Wis.**—The Board of Public Works is preparing to grade several streets, and at the meeting last week it was decided to advertise for bids for grading Wilson street and Peck avenue.—P. H. Connolly, City Engineer.

**Shawano, Wis.**—All bids were rejected for paving Main street with tar, macadam, concrete curb and gutter combined; the work will probably be done by the city.—D. E. Wescott, City Clerk.

## SEWERAGE

**Florence, Ala.**—The City Engineer has been directed to prepare plans for sewer system in certain streets, according to plans and specifications.

**Little Rock, Ark.**—Citizens are advocating construction of storm water sewers in central part of city.

**Elmhurst, Cal.**—The Board of Sanitary Trustees have called special election May 16 to vote on issuing bonds for installing sewers; Engineer is to be secured to perfect plans.

**Athens, Ga.**—The people have authorized an issue of \$75,000 bonds; \$40,000 of this issue will go to the building of new sewers and \$35,000 to the extension of the water mains of the city. With this addition the city will have expended \$200,000 on her water works system and more than \$125,000 on her sewerage system.

**Marietta, Ga.**—Council has under consideration an issue of \$20,000 additional sewer bonds.

**Moultrie, Ga.**—Plans have been prepared for a complete sewerage system.—W. D. Scott, Mayor; H. S. Jaudon, Savannah, Engineer.

**Pocatello, Idaho.**—An election is to be held to vote on issuing \$150,000 of bonds for constructing sewer system.

**Elgin, Ill.**—An ordinance was passed for the construction of the sewer system in the Sixth Ward; it will cost \$99,054.20, according to City Engineer Plum's estimate.—Wm. F. Sylla, City Clerk.

**Hoopestown, Ill.**—Charles Cottingham, of Danville, is preparing plans for the construction of sanitary sewers.—Joseph H. Decker, City Clerk.

**Mt. Vernon, Ill.**—S. T. Maxey, City Engineer, is preparing plans for a vitrified pipe sewer system; ordinance has already been passed; estimated to cost \$45,000; septic tanks will also be used.—Geo. E. Green, City Clerk.

**Waterloo, Ind.**—There is considerable protest on the part of citizens to the construction of a sewerage system here, on which it appears no carefully prepared estimates have been received; it is understood that the cost of the project will be \$40,000.

**Davenport, Ia.**—Plans have been prepared for a sewer in alley between Ninth and Tenth streets and Iowa and LeClaire streets from the sewer in Iowa street to the west line of LeClaire street, and Council will receive suggestions or objections May 6, 7.30 p. m.—Hugo Moeller, City Clerk.

**Minneapolis, Kan.**—Plans and specifications are being prepared for sanitary sewers by Burns & McDonnell, Engineers, Scarritt Building, Kansas City, Mo.

**Baltimore, Md.**—Bids will be received May 4, noon, for the purchase in whole or in part of \$500,000 of the new sewerage loan, bearing 3½ per cent. interest, payable semi-annually.—John M. Littig, President, Board of Commissioners of Finance.

**Lawrence, Mass.**—On motion of Alderman Dolan Council has voted to instruct the City Engineer to call for bids for all the supplies to be used on the Ward 1 and Osgood street sewers; the Board also voted additional appropriation of \$30,000 for the completion of the Osgood street sewer.

**Ann Arbor, Mich.**—The Department of Public Works will soon advertise for sealed proposals for laying a sanitary sewer in the Second Ward; will require about two miles of eight and ten-inch tile sewers, fifteen flush tanks, cast-iron manholes, etc.; cost, \$8,400.—Wirt Cornwell, President; Ross Granger, City Clerk; E. W. Groves, City Engineer.

**Detroit, Mich.**—Council has directed the Department of Public Works to advertise for proposals for construction of four vitrified crock lateral sewers.—J. J. Haarer, Commissioner.

**Flint, Mich.**—The Department of Public Works contemplates laying one block of 24-inch tile sewer in St. John street.—D. E. Newcombe, Clerk; Moses Middleton, City Engineer.

**Pontiac, Mich.**—The Department of Public Works contemplates laying a trunk sewer in the northern and northeast sides; will require about 8,000 feet of 15-inch vitrified tile piping; estimated cost, \$12,000; Wm. J. Fisher, City Engineer, is preparing the plans; bids will be received about June 1.

**Port Huron, Mich.**—The city contemplates laying a 24-inch tile sewer on Scott street, from Twelfth to Sixteenth street.—Wm. F. Wagenseil, City Clerk; W. W. Phelps, City Engineer.

**Perth Amboy, N. J.**—S. J. Mason, City Engineer, is preparing plans for a pipe sewer on Sheridan street, to cost about \$15,000; will require about 8,000 feet of 18-inch pipe.

**Merchantville, N. J.**—At a special election another bond issue for \$70,000 was authorized to be used in the completion of the sewerage system.

**Port Reading, N. J.**—F. L. Smith, C. E., Perth Amboy, is preparing plans for a pipe sewer for the township of Woodbridge; will include 3,300 feet of 18-inch and 1,500 feet of 15-inch pipe and about 900 feet of concrete outfall sewer; cost about \$8,000; bids will be received in about a month.—J. Edward Harned, Clerk.

**Binghamton, N. Y.**—The Board of Contract and Supply will shortly ask for bids for the construction of sewers on Beethoven street and Wales and Moffatt avenues, plans having already been prepared.

**Utica, N. Y.**—Council has passed and the Board of Estimate and Apportionment has approved ordinance for construction of storm water sewers and for issue of \$25,000 bonds to cover cost, and the Commissioner of Public Works has been instructed to purchase the necessary material and proceed with the construction; the sewers are to be constructed in Pleasant street, from West street to Genesee street; in the Cemetery road for a distance of about 1,600 feet easterly from the junction of said road with Oneida street, in Lincoln avenue from Shaw street to Oswego street, in Pleasant street from Seymour avenue to West street, and in Pleasant street from Dudley avenue to Conkling avenue.

The Board of Contract and Supply has approved plans for sewers in Sunset avenue and Sunset place, and the Clerk was directed to advertise for proposals for constructing the sewers.

**Ashtabula, O.**—Council has instructed the Service Board to advertise for bids for 168 feet of 36-inch pipe for the sewer outlet; ordinances to proceed with grading of East Sibley street and the paving of Sherman street have been passed.

**Cambridge, O.**—Election is to be held May 20 to vote on issuing \$45,000 of bonds, \$10,000 of which are for sewers.

**Cellina, O.**—Council will recommend the issue of \$25,000 bonds to build a main or trunk sewer.

**Cleveland, O.**—In order to save time, legislation enabling the Service Board to advertise for bids on the sewer work provided for in the \$725,000 bond issue authorized by the people of Cleveland, will be introduced in the Council before the bonds have been sold; of the \$725,000, \$500,000 will be expended in intercepting sewers.

Bids will be received May 4, noon, for \$225,000 4½ per cent. general sewer bonds; also \$500,000 4½ per cent. intercepting sewer bonds.—C. H. Nau, City Treasurer.

**Dayton, O.**—The ordinance introduced by Weimer & Kearns authorizing the issue and sale of bonds in sum of \$89,500 for construction of storm water sewers was given its final reading and passed.

**Delaware, O.**—E. G. Bradbury, the Columbus Engineer, estimates the cost of the proposed improvement of the sewage disposal plant at \$20,000; the State Board of Health has condemned the present plant.

**Lebanon, O.**—H. E. Gustin, City Engineer, states that Broadway will be sewerized just as soon as plans can be prepared.

**Marion, O.**—Property owners of West Marion are asking that city to establish sewer district in that section.

**New Philadelphia, O.**—Council will take action shortly on the matter of the proposed new sewer system; it is likely that the recommendation will be made in favor of constructing a new plant.

**Portsmouth, O.**—A new sewer is to be constructed down Front street and Jefferson street is to be paved; bids to be invited as soon as plans are completed.

**Reading, O.**—Members of Council are in favor of submitting to the people of the village the question of a bond issue for the installation of a sewerage system.

**Steubenville, O.**—Ferry & Sons have been awarded the contract for constructing a sewer in the north end.

**Tippecanoe City, O.**—Village Council has been petitioned to enlarge Plum street sewer and to construct county ditch north of town.

**Urbana, O.**—Council is ready to enact legislation now in preparation by the City Solicitor for the construction of the sewage plant.

**Youngstown, O.**—Council has decided to construct sewer in Glenwood avenue, from High street to Mahoning avenue.—A. W. Craver, Mayor.

**Beaver, Pa.**—James P. Leaf will have the contract for superintending the construction of the \$35,000 storm sewer; detailed plans are ready.

**Butler, Pa.**—Secretary of Council has been instructed to correspond with the several engineers who have made inquiry regarding the sewage disposal plant and to get proposals from them; about a dozen engineers from all parts of the country have made inquiry about the proposed plant, and Secretary H. E. Coulter will at once write each of these men. It is expected that the plant can be installed for \$10,000.

**Erie, Pa.**—Bids are to be immediately advertised for sewers in Chestnut street.

**Gallitzin, Pa.**—Bids will be received for the construction of a vitrified clay pipe sewer on Church street.—Henry & Dillman.

Engineers, 47 and 49 Altoona Trust Building, Altoona, Pa.

**Harrisburg, Pa.**—A resolution directing City Engineer Cowden to prepare an estimate of the cost of erecting a wall along the river from Seneca to Dock streets, and constructing an intercepting sewer within it and carrying this sewer to Sheesley's Island, was passed by Councils; it was introduced by Mr. Hickok, of the Fourth Ward; the idea is to run the sewerage to an island and there to filter it.

**Kingston, Pa.**—The Borough Secretary has been authorized to advertise for bids for sewerage that part of Reynolds street between Wyoming avenue and Rutter street.

**Schuylkill Haven, Pa.**—The Borough Council proposes the construction of sewers.

**Upland, Pa.**—State Health Commissioner Dixon has required the borough of Upland, near Chester, to devise plans to do away with pollution of the Delaware River, from its sewage; the sewers discharge into the river and into Chester Creek, and the movement is in line with the State authorities' effort to free the river from pollution.

**Chattanooga, Tenn.**—Mayor Crabtree has again vetoed contract for the Chestnut street sewer that was awarded by the Board of Public Works to the Noll Construction Company, and the contract will no doubt be relet over the Mayor's head, as all three members favor the award.

**Houston, Tex.**—The City Engineer is preparing plans for complete sewerage system.

**Corpus Christi, Tex.**—Joseph Stahl & Co. have applied for franchise for constructing sewer system; it is proposed to install \$100,000 system and septic tanks.

**Wichita Falls, Tex.**—Sewer system and disposal plant, to cost \$40,000, are to be installed for this city.—John W. Maxcy, Houston, Engineer.

**Tacoma, Wash.**—Council has ordered construction of sanitary sewer in South L street from South Eleventh street to connect with present sewer on South Fourteenth street, at an estimated cost of \$1,468.—L. H. Pearson, Clerk, Commission of Public Works.

**Moundsville, W. Va.**—Charles P. Collins, Consulting Engineer, Philadelphia, Pa., has been selected to make surveys and prepare plans and estimates for a sewer system to be built this summer.

**Wausau, Wis.**—This city contemplates sewer work in sundry streets; will require 1,600 feet of 15-inch tile and 2,000 feet of 12-inch tile sewer; bids to be received shortly.—C. A. Nutter, City Engineer.

**Hamilton, Ont., Can.**—A sewage disposal plant similar to the one at Reading, Pa., is to be constructed at a cost of \$135,000.—T. W. Juttens, Chairman, Service Committee; J. R. Heddle, Assistant City Engineer.

## WATER SUPPLY

**North Birmingham, Ala.**—The \$5,000,000 bond issue carried at the election by a vote of nearly 4 to 1, as follows: For the issuance of \$4,900,000 30-year gold water bonds: For the issue, 217; against the issue, 70. For the issuance of \$100,000 30-year gold light bonds: For the issue, 213; against the issue, 68.

**Lodi, Cal.**—The City will vote, May 5, on issuance of \$126,000 of bonds, \$76,000 of which will be for installing water works and light.

**Chester, Conn.**—The Chester Water Company will extend its mains to Ivoryton.

**Jacksonville, Fla.**—The Panama Investment Company has asked permission to use the public roads to lay a system of water mains to supply the Panama Park section people with artesian water from the well flowing at the park. The route of the water pipes was described as follows: Beginning at the intersection of Trout Creek and Moncrief Creek, thence following Moncrief Creek to the intersection of Moncrief Creek and the Lem Turner road, thence along the southern border of the Lem Turner road in an easterly direction to Long Branch, thence along Long Branch to the St. Johns River, thence along the St. Johns River to Trout Creek, thence along Trout Creek to Moncrief. It was stated that the pipes would not interfere with the use of the roads and highways, except in laying and repairing.

Judge Young, County Attorney, said there was no reason why the request should not be granted if the roads were not obstructed. The matter was referred to Chairman Benedict, with the understanding that it was the sentiment of the Board that the request be granted, the permission covering only a certain number of years.

**Athens, Ga.**—The city has voted to issue \$75,000 of bonds, \$35,000 of which will go for extending water mains and the remainder for building new sewers.

**Sparks, Ga.**—The City is to install water works.—J. B. McCrary, Atlanta, Engineer.

**Moultrie, Ga.**—H. S. Jaudon, Civil Engineer, Savannah, has plans for enlarging the water works.—W. D. Scott, Mayor.

**Joliet, Ill.**—City Engineer Stevens has been directed to prepare plans for new water system.

**Muscatine, Ia.**—City Engineer Ryan has been directed to secure data as to the cost of establishing a municipal water plant.—J. J. Ryan, City Engineer.

**Webster City, Ia.**—The Illinois Central Railway proposes to build water tank in this place.—Address A. S. Baldwin, Chief Engineer of Central Railway, Chicago, Ill.

**Winterset, Ia.**—Engineers W. K. Palmer Co., Dwight Building, Kansas City, Mo., are preparing plans for a system of water works.—W. O. Lucas, Mayor.

**Cottonwood Falls, Kan.**—Plans and specifications are being prepared for water works, to cost approximately \$25,000; bond election set for June 1.—Burns & McDonnell, Engineers, Scarritt Building, Kansas City, Mo.

**McPherson, Kan.**—Estimates and appraisements are being made of the water works and lighting plant, with a view to its purchase by the city; also estimates and plans for improvements to the water and lighting plant.—Burns & McDonnell, Engineers, Scarritt Building, Kansas City, Mo.

**Louisville, Ky.**—Captain B. B. Davis, Architect of the Court House, has been directed by the Fiscal Court to draw plans and specifications for the establishment of water works for the Court House.

**Newport, Ky.**—Council has under consideration the issue of \$100,000 bonds for securing improved water system.

**Brunswick, Md.**—A. E. Hedges, Clerk and Treasurer, writes in regard to the proposed water works system, as follows: "The bill authorizing water bonds will be voted on at an election to be held next month. Pending the results of that election no definite plans have been prepared. But, in the event of the election being in favor of the bond issue, which seems favorable at present, we will want plans and specifications, also bids for the material and construction of same."

**East Pepperell, Mass.**—The town has voted to accept legislative enactment permitting it to construct water works.

**Loch Raven, Mo.**—Engineers Wyatt & Nolting of Baltimore, Md., are preparing plans for the construction of reservoir at the American School for Boys, Loch Raven.—Address Superintendent.

**Laurium, Mich.**—Council is considering the question of purchasing water meters.—Joseph Light, Clerk, Water Board.

**Pontiac, Mich.**—The Department of Water Works contemplates the erection of a cement reservoir; money has been appropriated for digging wells, laying mains, etc.—H. G. Monroe, Superintendent; Jos. H. Thorpe, City Clerk; Wm. J. Fisher, City Engineer.

**East Grand Forks, Minn.**—The city has voted to issue \$50,000 of bonds for constructing water works.

**Wabasso, Minn.**—Estimates have been prepared for a steel water tower and tank; it is proposed to expend \$7,000 for water supply.

**White Bear, Minn.**—Bids will be received May 5, 2 p. m., for \$8,500 20-year, 5 per cent., semi-annual bonds for extension of water mains.—Thos. Milner, President of the Board of Trustees; Robert J. Bloom, Village Clerk.

**Prentiss, Miss.**—The city has accepted plans of Captain George W. Clough for water works.

**St. Louis, Mo.**—B. C. Adkins, Water Commissioner, will receive bids for a one-story boiler house at Bissell's Point, for the Water Department.

**Gresham, Neb.**—The City has voted to issue \$8,500 of water works bonds.

**McCook, Neb.**—The proposition for bonds for municipal water works was defeated.

**Deshler, Neb.**—M. A. Earl & Co., Engineers, Muskogee, Okla., will prepare plans for a system of water works; estimated cost, \$16,000.—W. E. Philby, Village Clerk.

**Morristown, N. J.**—The Normandy Water Company has been incorporated with a capital stock of \$150,000; John D. Canfield, John R. Brinley and Joseph Hinchman are interested.

**Roswell, N. M.**—The city sold water works bonds; plans are being prepared and letting will probably be May 22.—Burns & McDonnell, Engineers, Scarritt Building, Kansas City, Mo.

**Syracuse, N. Y.**—The Board of Contract and Supply has ordered its Clerk, Frederic T. Pierson, to advertise for proposals for 20,000 tons of iron pipe. The sum of \$25,000 has been appropriated by Council for preliminary work on the second pipe line from Lake Skaneateles and the storage reservoir; three or four miles of pipe nearest the lake will be 36 to 40 inches in diameter and the remaining 15 miles 30 inches. The Woodland reservoir may be enlarged or a new one may be built about a mile southeast of it, and about 115 feet above it. Specifications for pipe will be so made that small manufacturers may bid for a portion of the work. The whole undertaking will cost \$1,250,000.—Henry C. Allen, City Engineer.

The Directors of the Chamber of Commerce have decided to hire a hydraulic engi-

neer to investigate and report on the effect of the proposed Phoenix dam on the land surrounding Onondaga Lake and in this city.—John H. Barr, Chairman of Committee.

**Ashtabula, O.**—Architects Chapin & Knowles, Pittsburg, Pa., have prepared plans for a filtration plant to cost \$18,000 for the Ashtabula Water Company.—E. R. McDowell, Secretary, Ashtabula.

**Burberton, O.**—W. E. Miller of the Sewer Committee, states that the cost of the gravity system from the pumping plant to the wells is \$2,600; the City Engineer will immediately advertise for the construction of the gravity main; he also favors water works for West Burberton, at a cost of \$19,000.

**Canton, O.**—Superintendent Ohliger has recommended to the Board of Public Service that \$25,000 be expended for water pipe extensions.

**Cincinnati, O.**—The City of Cincinnati's \$200,000 water works extension 4 per cent. bonds, due February, 1938, have been sold at 102 1/4, to the Atlas National Bank, Cincinnati; \$65,000 park 4s, due 1958, have been sold at 103 6/8 to the Compton Bond and Mortgage Company, St. Louis.

**Cleveland, O.**—Bids will be received May 4, noon, for \$350,000 4 1/4 per cent. water works bonds.—Thomas B. Flower, Chairman, Finance Committee.

**Delaware, O.**—Council has appropriated \$500 to pay the expense of an expert consulting engineer in investigating and ascertaining the cost and value of the water works plant of the town; the plant is estimated to be worth \$230,000.

**Dresden, O.**—Council has passed ordinance to issue \$25,000 water works bonds, and in the event that the Sinking Fund Trustees do not care to take these bonds they will be advertised for thirty days.

**Galion, O.**—The Service Board has ordered a six-inch water pipe to be laid on a dozen streets of the town.

**Lakewood, O.**—D. M. Cook, Clerk of the Village, will open bids May 18 for the purchase of bonds aggregating \$7,500, bearing interest at 5 per cent., payable semi-annually; proceeds for improving the water works.

**Hubbard, O.**—The Village Council is taking steps for establishment of water works and sewerage.

**Hudson, O.**—Engineer D. M. Hisford, Caxton Building, Cleveland, will have plans completed about May 1 for a system of water works for the village of Hudson.—A. A. Augustus, Agent, Century Building, Cleveland.

**Newark, O.**—Engineers Riggs and Sherman of Toledo report that the distribution system of the new municipal water works plant is being tested out to determine the condition of the distributing system; the plant has thus far cost the city \$300,000 and \$85,000 additional has been appropriated for constructing an additional sixteen miles.

**Newton Falls, O.**—Bids will be received May 15 for \$2,000 4 1/2 per cent. bonds for water works plant.—Wade Gardner, Village Clerk.

**Painesville, O.**—The State Board of Health has recommended the construction of a filtration plant for the city; Council will take up this recommendation at once.

**Salem, O.**—Council is considering the erection of a new municipal water works plant; a preliminary examination of the property has been made by Engineers Riggs and Sherman of Toledo; a bond issue of \$225,000 will be necessary for the improvement.

**Sandusky, O.**—Jos. Loth, Jr., City Auditor, will open bids May 4 for the purchase of \$25,000 water purification plant bonds.

**Youngstown, O.**—Council has decided to offer for sale \$60,000 bonds for reservoir purposes.

**Chattanooga, Okla.**—Estimates are being prepared for water system.

**Edmond, Okla.**—The city has voted \$45,000 water works bonds.

**Fairview, Okla.**—Bids are asked for material and water works construction.—Burns & McDonnell, Engineers, 821-22-23 Scarritt Building, Kansas City, Mo.

**Guthrie, Okla.**—Engineers W. K. Palmer Co., Kansas City, Mo., are preparing plans and will receive bids for a filtration plant of 3,000,000 gallons' capacity daily; cost, \$30,000.

**Okeene, Okla.**—Plans and specifications are being prepared for water works plant; estimated cost, \$25,000.—Burns & McDonnell, Engineers, Scarritt Building, Kansas City, Mo.

**Waurika, Okla.**—City has voted to issue \$40,000 of bonds for construction of water and sewer systems.

**Canby, Ore.**—Roscoe Mack has been granted permission by the City Council to lay water mains on Maple and Weed streets.

**Butler, Pa.**—The Butler Water Company contemplates extending its lines to the hill top district on the South Side; according to the report of an Engineer, the County Home, which is the highest point on the South Side, is 36 feet above the level of the reservoir, and to serve that section of the city

with water it will be necessary to erect a pumping station on upper Centre avenue.

**Franklin, Pa.**—By a vote of 837 to 349 Franklin voted in favor of a \$260,000 bond issue for the purchase of the water plant; the project has been agitated for twenty years, but did not take definite form until after the typhoid fever epidemic last fall.

**Renovo, Pa.**—Election will be held May 16 to vote on increasing bonded indebtedness, proceeds to be used for improving water system.

**Scranton, Pa.**—Delaware, Lackawanna & Western Railroad has secured 15 1/2-acre site in Covington Township for its proposed reservoir.—G. J. Ray, Scranton, Pa., Division Engineer, D. L. & W. R. R., will prepare plans and have charge of the work.

**Tarentum, Pa.**—The Tarentum Borough Council has instructed its solicitors to prepare an ordinance authorizing a special election to vote on a \$100,000 bond issue to cover the cost of building a municipal water plant.

**Bryant, S. D.**—The question of issuing \$10,000 water bonds will be submitted to a vote of the people.

**Stickney, S. D.**—Edward K. Mather, C. E., of Mitchell, S. D., is preparing plans for new waterworks system for Stickney. Works will include deep well and tower and tank. Bids are to be asked for in the near future.

**Houston, Tex.**—Hyde Park Water Company, has been incorporated with a capital stock of \$10,000. J. C. Hutcheson, J. C. Hooper and W. I. Williamson are interested.

**Richmond, Utah.**—City has voted to issue \$12,000 of bonds for constructing water works.

**Orient, Wash.**—H. D. Merritt of Spokane has been before the Ferry County Board of Commissioners, taking up matters in connection with installing electric lights and laying water mains in the town.

**Cashton, Wis.**—Council is arranging to establish a \$15,000 water system.

## LIGHTING AND ELECTRICITY

**Jasper, Ala.**—The Jasper Light and Power Company, J. M. Crawford, President, will enlarge plant; plans are not yet perfected.

**Pacific Grove, Cal.**—A number of prominent citizens of Pacific Grove have formed a company, articles of incorporation of which have been filed in the County Clerk's office at Salinas and in Sacramento, for the purpose of establishing a gas plant; the directors are H. E. Hales, S. J. Evans and others.

**Placerville, Cal.**—The City Trustees have employed an engineer to prepare an estimate of the probable cost of installing an electric plant about three miles from the city, the same to be used in supplying light and power to Placerville; after the estimate is ready a special election will be called, at which will be submitted the question of voting bonds in a sum sufficient to cover the expense.

**Jesup, Ga.**—D. G. Zeigler & Co., Atlanta, Engineers, state that as soon as plans have been completed contracts will be let for building and equipping the proposed plant of the Goose Creek Railway and Manufacturing Company. Power will be used to operate an electric railroad, cotton mills and other enterprises; power will be supplied for lighting also; estimated cost, \$500,000.

**Reynolds, Ga.**—D. S. Canders is in market for 125 eight-candle power dynamos, 4,000 feet No. 8 insulated wire, switchboard and all necessary equipment for small light plant; 10-horse power gasoline engine, lamps, belts, countershaft and wire to be included.

**Burley, Idaho.**—Plans are being prepared by Saunders & Vandenheuvel for an electrical plant and pumps to be installed at the dam at Burley; contracts will be let shortly.

**Manito, Ill.**—The Village Board has voted to bond the town for \$3,500 and assume the control of the electric light plant, which was started by J. N. Smith, but the work was stopped and with the poles set and a part of the machinery in place operations on the construction of the work ceased; the village will pay Mr. Smith from \$1,600 to \$1,650 for his investment and advertise for bids for the completion of the plant.—Address City Clerk.

**Decker, Ind.**—The Hydro-Electric Company proposes to build a dam on White River; it is expected that work will begin in May.—Eugene Rush, President and Manager.

**Paoli, Ind.**—Plans have been prepared for additions and improvements to the municipal electric light plant, which will include installing of a tubular boiler; a 75-kw. 250-volt generator, one 100-h.p. engine, 5,400 feet 70,000 cm. cable; heater, pump and all accessories; the cost is estimated at \$6,000.—C. D. Stinson, West Baden, Engineer-in-Charge.

**Red Key, Ind.**—An election will be held to decide the question of issuing \$12,000 electric light bonds.

**Muscatine, Ia.**—The erection of a municipal lighting plant for the City of Muscatine is now being advocated by Council.

**Kiowa, Kan.**—Plans have been prepared

for \$12,000 municipal lighting plant, and election is called for April 30.—Burns & McDonnell, Engineers, Scarritt Building, Kansas City, Mo.

**Topeka, Kan.**—The citizens voted \$65,000 bonds for constructing and extending the electric light plant, and not \$5,000, as was stated.—C. B. Burge, City Clerk.

**Frankfort, Ky.**—The Capitol Commissioners will consider plans for erection of power house and installation of plant to furnish electric lighting, heating, etc.—Address Secretary.

**New Orleans, La.**—The Charity Hospital, Edwin Marks, Secretary-Treasurer, has adopted plans and specifications by E. Ponder, Chief Engineer, for erection of steam plant to supply heat, power, light and electricity for hospital; the report recommends installation of a 600-h.p. plant, costing \$15,500; piping, costing \$2,500, and erection of power house, costing \$8,000; total expenditures, \$26,000; bids for building plant are invited.

**Lansing, Mich.**—The Michigan Power Company, W. H. Zimmerman, Manager, has plans for a steam electric plant of 2,350 h.p. on the banks of Grand River, near the foot of Ottawa street; four stories, steel and reinforced concrete; estimated cost of building and equipment, \$150,000.

**Fergus Falls, Minn.**—Edward P. Burch, Consulting Engineer, of Minneapolis, is preparing plans for a 28-mile transmission line, 25,000 volts, between Wahpeton, N. D., and Fergus Falls, for the Otter Tail Power Co.; work on the dam will be completed August 1.

**Ava, Mo.**—The Ava Electric Railway, J. B. Quigley, Chief Engineer, will build power house, equipment to include 300-kilowatt, three-phase, 60-cycle, 6,600-volt alternator, direct connected to water turbine, and two motor generator sets; contracts for rails, ties, steel, water-power plant, auxiliary steam plant of 200 kilowatts' capacity, grading, etc., will be let within two weeks.

**Dora, Mo.**—The Martin Power Company, organized by S. R. Hammond of Dora, Thomas D. Martin, West Plains, and Dr. C. H. Martin and Charles K. Martin, both of Doniphan, contemplates building dam and power plant on Big North Fork River, near Dora, and transmitting electricity for power and lighting purposes to West Plains, 200 miles distant.

**Farmington, Mo.**—City has had plans prepared for electric light plant; a brick building, 30x40 feet, will be erected at a cost of \$1,500; cost of machinery, \$20,000.—Thomas B. Carter, Consulting Engineer, 615 Frisco Building, St. Louis; Carl Thompson, Engineer-in-Charge.

**Townsend, Mont.**—The Deep Creek Improvement Company has made a proposition to buy the electric light plant and expand it.

**McCook, Neb.**—The proposition to issue bonds for an electric light plant was defeated.

**Hoboken, N. J.**—Plans are being made by the New York and New Jersey Telephone Company to place all its wires underground in this city by August 1. The cost of the work is estimated at nearly \$50,000. It is the intention of the city to compel the Public Service Corporation and the Western Union and Postal Telegraph companies to place their wires underground.

**Binghamton, N. Y.**—Early in June the Board of Contract and Supply will ask for bids on one, two and three year contracts for lighting the streets with incandescent and arc lights.—Clarence M. Slauson, Mayor.

**Elmira, N. Y.**—The Public Service Commission has authorized the Elmira Water, Light and Railway Company to issue \$372,000 bonds for the completion and improvement of its plant.

**Leaksville, N. C.**—The Leaksville Light, Power and Milling Company, recently incorporated by A. B. and J. C. King and others, will establish electric light and power plant; work to begin in a few months.

**Bryan, O.**—Bids will be received May 9 for the purchase of \$10,000 per cent. electric light bonds.—F. W. Rabbaugh, Clerk of the Village.

**Cleveland, O.**—When the contract for the new engine and generator for the municipal lighting plant is completed, W. A. McIntyre, Superintendent, expects to make many extensions. In preparations for the future wires have been strung on a number of west side streets.

**Crooksville, O.**—The city may possibly acquire the lighting plant of the Acme Electric Light and Power Company, which was placed in the hands of a receiver, Thomas O. Crosson, upon application of certain stockholders; the company had recently built a new power house and installed 175 horsepower engine, making it the finest equipped little plant in this section; all this property will be sold ultimately and the village may acquire it.

**Hudson, O.**—Engineer D. M. Hisford, Caxton Building, Cleveland, has plans about completed for an electric light plant for

the village.—A. A. Augustus, Agent, Century Building, Cleveland.

**Lima, O.**—The city will issue bonds for the erection of a municipal electric lighting plant following the failure of the Schoepf Ohio Electric Railway syndicate to reduce its present price of \$85 per arc street lamp.

**Napoleon, O.**—The gas plant at the Henry County Infirmary blew up April 10.—Address County Auditor.

**Fort Gibson, Okla.**—The Grand River Light and Power Company, recently incorporated, will use gas producer; will erect brick building, 30x50 feet, at cost of \$3,000; cost of machinery, \$8,500.—C. H. Sudhoelter & Co., Architects, Muskogee; F. L. Boudinot and P. L. Pyle, Managers.

**Maysville, Okla.**—The Oklahoma Telephone, Electric Light and Power Company has been incorporated with \$20,000 capital by A. P. Cash, Joe W. Keller and others.

**Newville, Pa.**—The promoters of the Newville Electric Light Company are arranging for the purchase of a tract of land located north of Newville; a dam will be constructed and the mill at the site converted into a generating plant. A steam engine will be installed in the building to operate the dynamos until the water power can be utilized.

**Picture Rocks, Pa.**—F. E. Porter of Port Royal is negotiating with Council to establish an acetylene gas plant for lighting streets.

**Pittsburg, Pa.**—Architects W. G. Wilkins Company are preparing plans for a two and one-half-story power house on the Ohio River, below Pittsburg, for the War Department.

**Wolsey, S. D.**—The village will consider a municipal electric light plant.

**Memphis, Tenn.**—Definite steps towards a municipal light plant for Memphis have been taken by the Fire and Police Commission, which instructed Chairman B. G. Henning of the new Lighting Committee to take the subject up at once with Chairman P. J. Moran of the Lower Board Committee.

**Nashville, Tenn.**—About \$12,000 will be expended in erecting an addition to electric light plant.

**Corpus Christi, Tex.**—Clark Pease, President of City National Bank, and associates, have secured franchise to build and operate electric light plant.

**Goliad, Tex.**—The Chilton Electric Light Company will establish electric light plant; 150 lights; will erect 30x60-foot frame building at cost of \$600; cost of equipment, \$1,500.—August Mendez, Temporary Engineer; L. W. Chilton, Manager.

**Pulaski, Va.**—The city will improve electric light plant.

**Seattle, Wash.**—The Board of Regents of the State University, at a recent meeting approved the plans for the power plant to be erected at the State University; cost, from \$75,000 to \$100,000.

**Milwaukee, Wis.**—At the municipal election, April 7, the people voted in favor of proceeding with the erection and installation of a municipal lighting plant.—Charles J. Poetsch, City Engineer.

**Oshkosh, Wis.**—The Little Wolf River Power Company has been incorporated here with \$250,000 capital.—Leander Choate, President; Frank H. Josslyn, Secretary.

**Beulah, Wyo.**—The Black Hills Traction Company, Deadwood, S. D., will construct a power plant near Beulah, to cost about \$250,000; plans are not complete and machinery has not been decided upon; before further steps are taken a large amount of ditch, tunnel and flume work will have to be done; this in addition to the present plant.—Franklin P. Wood, Superintendent.

## FIRE EQUIPMENT

**Birmingham, Ala.**—Mayor Ward, in a message to Council, indorses the recommendations of the Chief of the Fire Department, that the hose wagon of Engine Company No. 3 and Chemical Engine No. 1 be thoroughly overhauled; that the relief valves now on trial on hose wagons Nos. 1, 2, 4 and 6 be purchased; that the buildings occupied by Engine Companies 3 and 5 be repainted; that an additional fire alarm box be placed near the new Terminal station; that additional fire hydrants be installed at intersection of Malmie avenue and Seventeenth street, Ridge avenue and Rose avenues, Jefferson avenue and Lincoln street.

**Redlands, Cal.**—The City Trustees recommend an issue of \$25,000 bonds for improving the fire protection.

**Moultrie, Ga.**—H. S. Jaudon, Civil Engineer, Savannah, has plans for fire protection for Moultrie.—W. D. Scott, Mayor.

**Averyville, Ill.**—Council has directed plans to be prepared for brick engine house; the building, including apparatus, will cost \$5,000.

**Abilene, Kan.**—A movement has been started to form a complete fire equipment with fire engine and paid men.

**Haverhill, Mass.**—Much needed repairs on some of the fire apparatus was called to the attention of the Fire Committee by Chief

Gordon, and it was voted to recommend the passage of an order calling for \$350 with which to put on new tires and fix up Hose No. 4, which is now hardly fit for service. Alderman Lord and Councilmen Hall and Belanger were appointed to determine the advisability of doing something on the hook and ladder truck at the Waters street station.

**Lawrence, Mass.**—On motion of Councilman Mosher, Council has recommended to the committee on conference an appropriation of \$45,000 for an engine house in Ward 5 and the readjustment of the fire alarm system of the city.

**Lowell, Mass.**—Fire Chief Hosmer has petitioned for the purchase of new steam fire engines to be placed in the West Centerville suburbs.

**Grand Rapids, Mich.**—Council is preparing to build fire station in the Fifth Ward.

**Ocean Springs, Miss.**—Arrangements are being made to build fire hall.

**Wilson, N. Y.**—The Village Trustees will erect a Fire Department building.

**St. Thomas, N. D.**—Council proposes to purchase additional hose and a fire bell.

**Wyndmere, N. D.**—Council is arranging to purchase fire apparatus.—Address City Clerk.

**Cleveland, O.**—A bond issue of \$500,000 for fire protection is being discussed as the direct outcome of the agitation of the West Side Chamber of Industry for better fire protection for that side of the river; if the bonds are issued it will have to be as the result of a special election.

**Marion, O.**—Architects Marriott & Allen, Columbus, are preparing plans for a two-story fire engine house for the Board of Public Safety; cost, \$35,000.

**Springfield, O.**—Every school building in the city, with the exception of St. Raphael's, must be remodeled or supplied with additional means of escape in case of fire, according to the recommendations of State Inspector W. H. Morgan; the city hospital and Springfield seminary are also included in the list.

**Youngstown, O.**—Council has decided to issue \$12,000 bonds for erecting a Fire Department building, and for furnishing and equipping same.—A. W. Craver, Mayor.

**Chester, Pa.**—The Prospect Park Fire Company has received bids for erecting proposed new fire house, which average about \$12,000, or about \$2,000 more than was planned, and efforts will be made to raise the additional sum; the building will be a fire house and town hall combined; 2 stories of stone, brick and pebble dash; there will be a stone base, and the first floor will comprise brick of fancy facing; the second story will be of pebble dash.—E. S. Borce, Chief Engineer.

**Erie, Pa.**—Council has authorized the purchase of an automobile, to cost not more than \$2,000, for use of Fire Department.

**Philadelphia, Pa.**—The School Board has directed the purchase of 1,500 fire extinguishers.—Address Clerk, Board of Education.

**Pittsburg (Crafton Terrace), Pa.**—The Fire Chief recommends the purchase of 500 feet of hose for this district.—Address Fire Chief.

**Wilkinsburg, Pa.**—Arrangements are being made to improve fire protection.—Geo. Comish, Chief of the Fire Department.

**Corona, S. D.**—A fire company will be organized.

**Crivitz, Wis.**—Council proposes to purchase fire equipment.

**Milton Junction, Wis.**—A Fire Department has been organized by Council.

**Oshkosh, Wis.**—The School Board proposes to equip the school building with automatic sprinklers.—Address, Clerk, Board of Education.

**Monterey, Mex.**—The Fire Department has purchased six chemical engines and proposes to purchase several steam fire engines and organize several new fire companies.—Address City Clerk.

## PUBLIC BUILDINGS

**Miami, Fla.**—All bids were rejected for the erection of a high school building.—W. C. De Garmo, Architect.

**Conyers, Ga.**—An election will be held May 8 to decide the question of issuing \$10,000 Court House improvement bonds.—Address Clerk of the Board.

**Beardstown, Ill.**—Architect Paul O. Moratz, Bloomington, is preparing plans for a high and grade school building, to cost \$35,000.

**Murphysboro, Ill.**—Architect R. G. Kirsch, St. Louis, will probably be selected to prepare plans for a \$20,000 two and one-half story school building for the Board of Education.—Willard Hall, Secretary.

**Quincy, Ill.**—The proposition to issue \$105,000 bonds for erecting a City Hall was lost by a large majority.—John A. Berlin, City Clerk.

**Larwill, Ind.**—Architects Griffith & Fair, Fort Wayne, are preparing plans for a two-story high school building for R. L. Smith, Trustee.

**Muncie, Ind.**—A committee has been appointed by Council to select and approve

plans for the construction of a City Hall; estimated cost, \$100,000; the Board of Public Works will ask for bids as soon as plans are approved.

**Sidney, Ind.**—Architects Griffith & Fair, Ft. Wayne, have plans ready for bids for a six-room high school building for C. C. Miller, Trustee.

**Tocsin, Ind.**—The citizens have voted \$12,000 bonds for the erection of school house.—Address City Clerk.

**Clinton, Ia.**—Architects John Morrell & Son are preparing plans for a two-story school building for the city.

**Perry, Kan.**—Architect W. F. Schrage, Kansas City, has prepared plans for a \$10,000 two-story school building for the Board of Education, care E. L. Raines.

**Shelbyville, Ky.**—The Fiscal Court of Shelby County has decided to submit to the voters the proposition to issue \$100,000 bonds for the erection of Court House.—Address Clerk, Board of Commissioners.

**Alexandria, La.**—Bonds, \$32,000, have been voted for erecting City Hall.

**Northampton, Mass.**—A City Hall Commission, consisting of ten members, has been appointed to investigate all matters relating to the advisability of constructing a new City Hall; the Commission is authorized to report to Council its recommendations as to location, plans, costs, financing and any other recommendations; the sub-committee to look after the plans for the building are: Theobald M. Connor, Edwin B. Emerson and Wm. A. Stevenson.

**Ann Arbor, Mich.**—The Commissioners of Washtenaw County, Edgar D. Holmes, President Board of Supervisors, Ypsilanti, contemplate building an addition to the County Jail, at Ann Arbor; approximate cost, \$2,500.

Architect H. W. Pipp has been retained by the Board of Education to draw plans for a one-story, four-room school building.

**Detroit, Mich.**—Architects Smith, Hinckman & Grylls are preparing plans for a \$14,000 addition to library building for the Public Library Commissioners.—D. B. Dufield, Secretary.

The Board of Health contemplates the erection of a tuberculosis hospital building.

**Port Huron, Mich.**—Architect George L. Harvey, 201 Huron avenue, is making preliminary plans for remodeling and building an addition to the Washington school, Court street, for the Board of Education.—Wm. F. Wagenseil, Secretary.

**Crookston, Minn.**—Plans for Franklin School are being drawn by B. D. Keck; estimated cost, \$127,500; and steel trusses and I beams, \$3,000.—J. E. Carroll, City Engineer.

**Ely, Minn.**—The contractors for the grade school building for School District No. 12 have refused to execute the contract, and the School Board has issued a second call for bids; F. L. Young & Co., Duluth, Architects.

**Maryville, Mo.**—Architect A. A. Searcy is preparing plans for a two-story and basement high school building, to cost \$75,000.

**Sikeston, Mo.**—Architects Matthews & Clarke, St. Louis, are preparing plans for a \$25,000 three-story high school building for the Board of Education.—G. B. Greer, President.

**Omaha, Neb.**—Architects Fisher & Lawrie will prepare plans for the sixteen-room Omaha View School building.

Architect Fred. M. Clarke will prepare plans for the twelve-room Forest School building for the Board of Education.

**Mount Holly, N. J.**—A committee of the Board of Freeholders has had plans prepared for a hospital building in connection with the Burlington County Almshouse at New Lisbon by William G. Leconey, architect, of Moorestown, and he was also instructed to obtain approximate estimates on the cost. The proposed building is a two-story structure with plain but imposing exterior, with rooms to accommodate thirty-six patients and a finished basement.

**Newark, N. J.**—Architects J. O'Rourke & Sons have completed plans for a one-story \$10,000 market house for the Department of Public Markets.—M. F. McGowan, Chairman Building Committee.

**Trenton, N. J.**—Plans are being prepared by the State Architect for the enlargement of the Senate Chamber under the direction of the State House Commission, at a cost of \$20,000.

**Bronxville, N. Y.**—Architects Wilder & White, New York City, are about to let contracts for a two and one-half-story administration building and ward wings 1 and 2 for the Lawrence Hospital, to cost \$50,000.

**Geneva, N. Y.**—Architect Arthur E. Nash has completed plans for a three-story City Hall; cost, \$100,000.

**Mamaroneck, N. Y.**—Architect Arthur G. C. Fletcher, New York City, is receiving estimates for an addition to high school building.

**New York, N. Y.**—Architects McKim, Mead & White will prepare plans for a postoffice

building on Eighth avenue, between Thirty-first and Thirty-third streets; \$3,000,000.

Architects Babb, Cook & Welch are about to let contracts for a four-story library building for the Seward Park branch of the New York Public Library.

**Wampsville, N. Y.**—Architect J. Riely Gordon, New York City, is preparing plans for a three-story Court House for the Board of Supervisors of Madison County; cost, \$200,000.

Architect William J. Beardsley, Poughkeepsie, N. Y., is preparing plans for a jail building for the Madison County Board of Supervisors; cost, \$50,000.

**Wilson, N. Y.**—The Village Trustees have voted to have plans prepared for a village hall, with quarters for the Fire Department.

**Greensboro, N. C.**—Architects Rose & Weston have prepared plans for college buildings; brick, stone, granite, concrete and terra cotta, iron and steel work, gas and electric fixtures, plate glass, bath tubs, water closets, lavatories, plastic ornaments, terrazzo tiling, wood fiber plaster, etc.; about \$50,000; day work.

**Jonesboro, N. C.**—The County Attorney has been directed to advertise for bids for the purchase of \$30,000 Lee County Court House bonds.—Address County Auditor.

**Fremont, O.**—By a majority of more than 700 Fremont decided at a special election to issue bonds in the sum of \$100,000 for a new high school and other improvements for the safety of the pupils.

**Lima, O.**—Architects De Curtins & Parke have completed plans for remodeling the City Hall, to cost \$10,000.

Architects Leech & Leech are preparing plans for a two-story, eight-room school building for the School Board; cost, \$25,000.

Architects Dawson & McLaughlin are preparing plans for a two-story, four-room school building for the School Board; cost, \$20,000.

**Lorain, O.**—E. Breull, Clerk of the Board of Education, will open bids May 11 for the purchase of \$18,000 school bonds.

**Mansfield, O.**—The Clerk of the Board of Education, J. E. Nelson, will open bids May 1 for the purchase of \$17,500 public school improvement bonds.

**Marion, O.**—Marriott & Allen, Columbus, are preparing preliminary plans for a two-story City Hall, to cost \$100,000.

**Washington, O.**—Architect William Hammer, Washington C. H., has prepared plans for City Council of Washington for a combined City Hall and I. O. O. F. Temple; plans call for a two-story building of brick, with city jail in basement; lower floor to contain theatre, Mayor's office, office of Chief of Police, Council Chamber, City Auditor and City Engineer; theatre to be in rear, with toilet rooms, etc.; upper floor to contain lodge halls, etc.; cost \$30,000.

**Chickasha, Okla.**—The proposition to issue \$90,000 school and City Hall bonds carried.

**Harrisburg, Pa.**—Common Councilman Ossler, of the Seventh Ward, has introduced a resolution providing for a committee of Councilmen to confer with the County Commissioners regarding the erection of a suitable building to house all the offices of the city and county, and the resolution was passed unanimously; it provides for three Selectmen and three Commoners. President Umberger, of Select Council, after that branch had concurred in the action of the lower branch, appointed as the representatives of Select Messrs. Houtz, Sheesley and Orth.

Architect T. H. Hamilton is preparing plans for a building to cost \$20,000 for the Harrisburg Academ.

**Calgary, Alta, Can.**—Tenders for the isolation hospitals have been withdrawn.—E. C. Page, Chairman.

**New Westminster, B. C., Can.**—Competitive plans will be received by the Board of School Trustees, box 99, for an eight-room school building; information furnished on application to chairman.

## ELECTRIC RAILWAYS

**Atlanta, Ga.**—The Georgia Railroad Commission has granted permission to the Atlanta and Carolina Railway Company to issue bonds to the amount of \$6,000,000; the money will be used in construction of the company's tracks and the purchase of equipment; the company contemplates the construction of an electric line from Augusta, Ga., through Atlanta to West Point, Ga.

**Washington, D. C.**—The Washington, Spa Spring & Gretta Railway, which has a charter to build on Bladensburg Road, is now seeking an extension to its charter privileges in the District of Columbia.

**Alton, Ill.**—The Secretary of State has issued a license to incorporate the Alton, St. Louis & Cairo Railroad Company. It is proposed to construct an electric railroad from Alton, Madison County, through the Counties of Madison and St. Clair to East St. Louis, and from East St. Louis to Cairo through the Counties of St. Clair, Monroe, Randolph, Jackson, Union and Alexander, with a branch to Columbia, Waterloo and Mammoth Cave in Monroe County.

**Danville, Ill.**—The Wabash Valley Railroad will probably commence construction work this spring on its proposed line, which is to run from Danville, Ill., to Terre Haute, Ind., skirting the west bank of the Wabash River and passing through Clinton, Ind., connecting a chain of towns from Terre Haute to Danville, a distance of 54 miles. The officers of the company are as follows: D. C. Johnson, Clinton, President; W. S. Lewis, Clinton, Vice-President; B. S. Aikman, Newport, Secretary, and H. B. Davis, Newport, Treasurer.

**Girard, Ill.**—Surveys are to be started shortly for the proposed interurban line of the Pana, Girard & Jacksonville Railroad.—B. F. Darneille, Springfield, Secretary.

**Marengo, Ill.**—Hon. Edward D. Shurtleff of Marengo, has become associated with Hamilton Browne in the building of an electric railroad from Marengo to Elkhorn, Wis., a distance of thirty-six miles.

**Taylorville, Ill.**—St. Louis, Terre Haute & Quincy Railway Company, incorporated last year, has secured a franchise in Taylorville for the operation of its interurban line. Most of the right of way in Christian County has been secured. Edward Yates, of Pittsfield, Ill., is President. The company proposes to build an electric railway from Terre Haute, Ind., to Quincy, Ill., and has purchased the property of the Virden & Taylorville and the Roodhouse & Virden, including right of way, which will be used for a portion of the line between Taylorville and Quincy, Ill.

**Waterloo, Ia.**—The Iowa Railroad Company, with offices at 1211 Association Building, Chicago, Ill., has been organized and is said to be making plans for the construction this summer of an electric railroad fourteen miles long, to extend from Waterloo to Perry, with a stub line from Story City to Ames.—Henry S. Osborne, Chicago, Ill., President; L. W. Harris, Eldora, Ia., Secretary.

**Rumford, Falls, Me.**—Construction work will be started about June 1 on the proposed electric railway between this place and Bethel; projected length is 30 miles; Orville J. Gonya, Rumford Falls, is interested.

**Cheesaning, Mich.**—Franchise has been granted to the Lansing, Saginaw Electric Railway to build line through village streets.—J. A. Thick, Detroit, Promoter.

**Ava, Mo.**—Surveys have been made for the proposed electric railway from Ava, north to Cedar Gap, where a connection will be made with the St. Louis and San Francisco; the line will be 15 miles long; contracts for rails, ties, steel, water-power plant, auxiliary steam plant, grading, etc., to be let at once.

**Goldsboro, N. C.**—The Board of Aldermen has passed an ordinance granting a street railway franchise to E. T. Oliver and associates.

**Oil City, Pa.**—Capitalists of Oil City, Titusville and Pleasantville have organized the Pleasantville Traction Company to build a trolley road between this city and Titusville, 12 miles long, to connect with the Citizens' Traction Company here, making a trolley connection along Oil Creek from Franklin to Hydetown.

**Richmond, Va.**—The receivers of the Virginia Passenger and Power Company will expend \$70,000 in improvements.

**Keyser, W. Va.**—The Potomac River Railway Company has been incorporated with a capital of \$150,000 to build an electric line between Piedmont and Keyser. L. P. Probe, J. J. Benter and others, Incorporators.

**Oshkosh, Wis.**—The Winnebago Traction Company proposes to build an extension to Berlin, Wis., and to make improvements, to cost \$30,000.

## BRIDGES

**Los Angeles, Cal.**—Plans and specifications for the building of four new county bridges were adopted by the Board of Supervisors and work on the bridges will be started within the near future; the bridges will be 100-foot trestle over the Los Angeles River at State street; 225-foot bridge over the San Gabriel River at Center street; 175-foot bridge over the same river at Norwalk, and 350-foot bridge over the San Gabriel River at between Elftman Station and Long Beach.—Address County Auditor.

**Bridgeport, Conn.**—City Engineer Mc-Kenna has filed with Public Works Director Biltz a sketch for a temporary frame culvert across Pembroke Lake at Arctic street to replace the Arctic street bridge, which is unsafe for the use of vehicles; bids will be invited in a few days on the contract for the culvert, which will give way a year hence to a concrete affair; the approaches to it are being filled in and considerable new land has been made; the wooden culvert will last until the spring of next year and the Board of Apportionment will be asked to make an appropriation for a permanent concrete structure.

**Vidalia, Ga.**—The Augusta Construction Company, E. L. Bemis, President, Richmond, Va., will award contract within 30 days for construction of foundations for steel draw-

bridge on Georgia and Florida Railway, between Vidalia and Hazlehurst.

**Kamiah, Idaho.**—Engineers have commenced sounding for a location of bridge piers for the Kamiah Bridge Company, which will build a toll bridge across the Clearwater River; application for a permit to bridge the river will soon be made to the Secretary of War; plans have been drawn for the bridge, which will be a combination wood and steel structure, to cost \$12,000.—Address Secretary, Kamiah Bridge Company.

**Elgin, Ill.**—Plans for the two bridges at Wing Park are being drawn in the offices of the Illinois Bridge Company, which is also figuring on the Bluff City boulevard.—Address City Engineer Plumb.

**Oak Park, Ill.**—Bids will be received for the construction of a steel bridge at Forest Home Cemetery.

**Rochester, Ill.**—The iron bridge over the Spoon River near this place collapsed.—Address City Clerk.

**Connerville, Ind.**—The Fayette County Commissioners are having plans prepared for a 180-foot bridge.—J. L. Kennedy, County Auditor.

**Fort Wayne, Ind.**—The County Commissioners propose to construct bridge over Eel River on Whitley-Allen County line.

**Goshen, Ind.**—The County Board has made an appropriation of \$50,000 to repair county bridges.—Address County Auditor.

**Indianapolis, Ind.**—Bids will be received May 28 for the purchase of \$100,000 3½ per cent, twenty-year Marion County bridge bonds.—Albert Sahm, Auditor of Marion County.

**Des Moines, Ia.**—Residents near Four-Mile bridge have petitioned Council to co-operate with the county in the construction of a new bridge over their stream; it is asked that the structure be eight feet higher than the old one, so as to grade in with the west hill.

**Emporia, Kan.**—Lyon County contemplates the erection of a steel bridge over Ludy Creek.—J. E. Martin, County Clerk.

**Iola, Kan.**—The County Commissioners have been petitioned to construct a bridge over the Neosho River at the Bales Ford.

**Glasgow, Ky.**—The County Fiscal Court has appropriated \$3,500 for a bridge over Skaggs Creek at Matthews Mill.

**Paris, Ky.**—Five hundred citizens have petitioned the Bourbon Fiscal Court for the substitution of a new modern steel bridge over the North Fork of Stoner Creek, at the foot of North Main street, displacing the present wooden bridge; the construction of the steel railroad bridge, which spans Houston Creek and is about seventy-five feet high and one hundred and fifty feet long, is among the probabilities of the near future.—Address Clerk of Bourbon Fiscal Court.

**Pikeville, Ky.**—Pike County invites bids for construction of bridge over Big Sandy River.—Address County Commissioners.

**Shelbyville, Ky.**—Shelby County will improve bridges and roads for which about \$60,000 is available.—Address County Commissioners.

**Bossier City, La.**—R. G. Hedrick, Kansas City, Mo., is engineer for the proposed free bridge.

**Stockbridge, Mass.**—The town has appropriated \$1,500 for a new bridge.—Franklin C. Carver, First Selectman.

**Baltimore, Md.**—The executive committee of the Merchants' and Manufacturers' Association is considering the feasibility of building a bridge over Chesapeake Bay.

**Albion, Mich.**—Council is having plans prepared for new bridges at the mill pond, Erie street race, Erie street river and North Superior street, to replace the ones carried out by high water; bids will be asked for on both steel and concrete structures; Architects Smith, Hinckman & Grylls, of Detroit, are preparing the plans.

**Detroit, Mich.**—Plans for a handsome and modern bridge to replace the present Belle Isle bridge have been completed by City Engineer McCormick; the cost would be \$1,500,000, while the present bridge cost \$325,000; the new structure is designed to be of trussed concrete, 80 feet wide, instead of 44, as at present, and to be 2,700 feet long, connecting with a new dock at the city end; a jackknife lift would replace the present drawbridge, leaving a 150-foot clear span for boats.

**Muskegon, Mich.**—The county has voted to raise a special tax for placing swing bridge over Muskegon River on the North Muskegon road, for bridging the White River at Montague and Whitehall, Lake Harbor, and Muskegon River at Maple Island.

**St. Cloud, Minn.**—Bids will soon be received by the Commissioners of Stearns County for the construction of a bridge across Sauk River, at Rockville.—Henry J. Meyer, Chairman.

**Vicksburg, Miss.**—Bids will soon be re-advertised for constructing bridges.—J. D. Laughlin, Chancery Clerk.

**Butte, Mont.**—Bill is before United States Senate authorizing the Yellowstone Valley Steel Bridge Company of Montana, to construct a bridge across the Missouri River

at or within one mile west of the east boundary line of Montana.

**Trenton, N. J.**—The Legislature have authorized the Freeholders of Hudson County to rebuild bridge over the Hackensack River.

**Albany, N. Y.**—The Central Hudson Railroad Company is having plans and specifications drawn up for a structure to replace the Broadway viaduct; the Chamber of Commerce is making an effort to have the officials include in the specifications a carriage-way to the Rensselaer station.—Address Secretary of Public Service Commission.

**Rensselaer, N. Y.**—The New York Central and Hudson River Railroad, J. B. Hayden, Engineer of Bridges, New York City, is having plans and specifications prepared for a structure to replace the present Broadway viaduct.

**La Moure, N. D.**—Contract was not let for the construction of wood and steel bridges as may be ordered during the year 1908.—E. W. Field, Auditor La Moure County.

**Cincinnati, O.**—City Engineer Sundmaker has recommended that a new steel viaduct, to cost about \$360,000, be constructed in preference to completing the proposed reconstruction of the present Liberty street viaduct.

**Dayton, O.**—Council has authorized an issue of \$170,000 bonds for building a cement bridge at Dayton View.—Robert Kline, City Engineer.

**Defiance, O.**—The County Commissioners will build forty bridges this year.

**Delphos, O.**—Councilman J. J. Kelly has invited the Commissioners of Allen and Van Wert Counties to the city to interest them in the need of a new bridge over the canal at Third street; the Commissioners assured Mr. Kelly of extensive repairs to several other bridges.

**Marlette, O.**—The Washington County Commissioners have decided to build bridges in Cutler, Decatur and Belpre townships this summer.—Arthur F. Cole, Washington County Surveyor.

**Niles, O.**—The City Engineer has prepared estimates for a foot bridge to the Empire Mill.

**Piqua, O.**—Council has been petitioned to erect a bridge over Water street.

**Portland, Ore.**—Council has appropriated \$5,000 to employ Engineer Ralph Modjeski to prepare preliminary plans and specifications for a high bridge across the Willamette River below the steel bridge, and for constructing subways under the river; J. B. C. Lockwood, a local civil engineer, has about completed preliminaries for the proposed high bridge, and Engineer Modjeski's work will be independent.

Agitation for construction of a bridge across Sullivan's Gulch on East Twelfth street, to replace the present wooden roadway, has been started; this bridge was built fourteen years ago, and will soon have to be replaced.—Address M. G. Munly.

**Erie, Pa.**—Council has passed the Barber ordinance, authorizing a bond issue of \$10,000 to meet the expense of building concrete arch culverts over Mill Creek at Second and Third streets.

**Newcastle, Pa.**—Plans are being prepared by T. A. Gilkey for a bridge over the Neshannock Creek, connecting Pittsburg and Washington streets; for further information address County Commissioners.

**Philadelphia, Pa.**—Among the municipal improvements mentioned in ordinances and considered were the erection of a bridge over Frankford Creek in a line with Aramingo avenue; a bridge over the Richmond branch of the Reading on Glenwood avenue; the reconstruction of Chestnut street bridge and its approaches, and the opening of Twenty-ninth street, within three months, between Montgomery and Sedgeley avenues.

**Pittsburg, Pa.**—County Commissioners propose to build two new bridges, one across the Ohio River, connecting Sewickley and Coraopolis, and one across the Allegheny River at Oakmont. Each structure will cost \$500,000, which it is proposed to cover by a bond issue.

**Reading, Pa.**—Berks County Court has authorized the building of three new bridges, one in Robeson Township over Hay Creek, between Birdsboro and White Bear; the second in Colebrookdale Township, and the third in Bern Township over the Schuylkill Canal.

**Smithville, Tenn.**—The County Supervisors have decided to build two new bridges this year, one over Smith Fork, near Temperance Hall, and the other over Caney Fork River, near Sligo.

**Beaumont, Tex.**—The new Jefferson County bridge, which spanned Pine Island bayou at Voth has been carried away by the sudden rise in the bayou due to the heavy rain.—Address Jefferson County Auditor.

**Kaufman, Tex.**—The Commissioners of Kaufman County have voted to expend \$10,000 for the erection of steel bridges.

**Weatherford, Tex.**—The County Commissioners and members of Council have agreed upon the construction of a concrete culvert

the entire width of North Main street, to be built over Town Creek at a cost of \$8,000; the cost will be borne equally by the city and county.—Address City Engineer.

**Chippewa Falls, Wis.**—The city has voted to issue \$35,000 of bonds for bridge purposes.

**Superior, Wis.**—Negotiations in regard to three viaduct propositions are now on between the city and the railroad companies and the outcome may be the extension of two viaducts and the building of a third; extensions are being considered for Belknap and Twenty-first street viaducts, and a new viaduct is being talked of for North Third street.

## MISCELLANEOUS

**Athens, Ga.**—Bids will be received May 1, at 10 a. m., for the purchase of \$75,000 thirty-year 5 per cent. bonds of the city of Athens, Ga., all or part of issue.—C. M. Snelling, Chairman Finance Committee, P. O. Box 283.

**Chicago, Ill.**—Proposals will be received at the office of the Special Park Commission, Room 118, City Hall, for construction of two concrete retaining walls at the Holden Municipal playground, situated on Bonfield street, near Thirty-first street.—A. W. Bellfuss, Chairman.

**Mackinaw, Ill.**—The County Commissioners are planning to dredge the Mackinaw River for a distance of eight miles.—S. S. Smith, Chairman Road and Bridge Committee.

**Terre Haute, Ind.**—Council has under consideration an issue of \$75,000 bonds for park purposes.

**Boyne City, Mich.**—The question of issuing \$20,000 bonds for improvement purposes will be submitted to a vote of the people.

**Meridian, Miss.**—Bids for \$250,000 Meridian securities were opened as follows: \$50,000 water works bonds, \$50,000 street paving bonds and \$150,000 certificates of indebtedness. The entire issue was bought by the Citizens' National Bank of this city for a premium of \$1,925, accrued interest and cost of lithographing. Other bidders were the Union Bank and Trust Company for \$50,000 water bonds par and premium of \$650. The First National Bank, Meridian, \$100,000 paving and water bonds par, and premium of \$1,620; E. H. Rollins & Co., Chicago, \$100,000 bonds at par and premium of \$1,650.

**Rochester, N. Y.**—A communication from Comptroller Pond, suggesting that a bond issue of 4 per cent. for \$1,500,000 local improvement, \$1,400,000 water works and \$184,000 public market funds was referred to the Finance Committee; the Comptroller was given authority to issue a city note for \$100,000 for water works improvements needed within the next thirty days.

**Bellfontaine, O.**—S. A. Buchanan, Assistant State Engineer, has copies of the plans for the new locks to be built in St. Mary's this summer; the length of the masonry will be 145 feet, the walls 120 feet; a cement wall 660 feet long will also be built.

**Youngstown, O.**—The Youngstown Sheet & Tube Company is about to begin construction of an immense dam across Yellow Creek at Struthers; a preliminary survey of the territory has been made.

**Purcell, Okla.**—The matter of issuing \$75,000 improvement bonds is under consideration.

**Philadelphia, Pa.**—Council is considering appropriation of \$11,000 for two automobile ambulances for the New Municipal Hospital and \$5,000 for an automobile for the Department of Public Works.

## BIDS RECEIVED

**Scottsboro, Ala.**—Mason Brothers, railroad contractors of Bridgeport, this county, have just been awarded a contract to construct ten miles of railroad for the Florida and Georgia road; also 30 miles of trestle for the same line running from Douglas to Valdosta, Ga. The work will begin at once.

**Marysville, Cal.**—Council has determined to enter into a contract with A. B. Munson for filling the streets and alleys in the low portions of the range bounded by B, F, Eighth and Ninth streets; this leaves only the Southern Pacific for Munson to close up with, before commencing work. Munson is to have a year in which to complete the fill, but will complete it by November 1. In the deal something like \$30,000 will be involved. The cost to the city will be between \$6,000 and \$7,000.

**Oakland, Cal.**—The contract for macadamizing McKinley avenue, from Spruce street 44 feet west, has been awarded to the Ransome Construction Company.—F. C. Turner, City Engineer.

The Board of Public Works has awarded the Contra Costa Construction Company the contract for the construction of the Grove, Jones and Twenty-sixth street sewers at \$16,429.—F. C. Turner, City Engineer.

**San Francisco, Cal.**—The contract to repave Sutter street, from Sansome street to Van Ness avenue, was awarded by the Board

of Public Works to the Barber Asphalt Company, San Francisco, at \$60,241.

**Fort Morgan, Col.**—The following bids were received by C. C. Rickel, City Clerk, for the construction of 56,000 feet of 8-inch sewer, 3,100 feet of 10-inch sewer, 6,300 feet of 12-inch sewer, 2,400 feet of 15-inch sewer, 48 feet of 16-inch cast-iron outlet, 125 manholes, 27 flush tanks and 4,000 feet of  $\frac{1}{2}$ -inch water service pipe: Davis & Heuser, \$9,845; Connally & McGovern, \$56,739; Katz-Craig Construction Company, \$58,169; J. R. Gordon, \$71,595; Doyle & Schwartz, \$60,156; J. J. Dunnigan, \$61,805; Serrie Bros., \$61,686; W. W. Cook & Son, Junction City, Kan., \$56,645 (awarded contract); M. Ford, \$64,169.

**New Britain, Conn.**—The Water Department has awarded the contract for the valves for the Burlington pipe line to the Pratt & Cady Company of Hartford; they were the lowest of five bidders, at about \$5,000.

**Washington, D. C.**—The Commissioners have awarded the contract for the fireproofing and placing of karbolith floors in the newly constructed school known as No. 154, located at Columbia road and Erie avenue, to the George A. Fuller Construction Company.

Bids were received as follows by the District Commissioners for the construction of an addition to the Gage School: Milton C. Davis, Baltimore, Md., \$22,795; Pavarini & Wyne, Washington, \$25,290; Robert T. Humphrey, Washington, \$20,900; James M. Dunn, Washington, \$20,683; Burgess & Parsons, Washington, \$21,397.

**Jacksonville, Fla.**—There was but one bid for paving with flint rock macadam eight inches deep in the middle and five inches deep at curb one mile of the Middleburg road fifteen and a half feet wide, it being by Foster & Long, and was for \$9 cents per square yard. The contract was awarded on motion of Commissioner Miller.

**Cairo, Ill.**—John Barrett & Sons, city, have secured the contract for an immense amount of street paving, which will require 3,000,000 brick, which are to be brought here from Portsmouth, Ohio.

**Joliet, Ill.**—The Board of Local Improvements has awarded to Monahan Brothers the contract for the improvement of Illinois street by the construction of a water main at the following prices: 370 feet 6-inch water main calked and finished complete, 73 cents; 565 linear feet excavation and backfilling trenches over water main, hydrant and service connections, 25 cents; six lead service connections, 28 feet long, with corporations and stop cocks connected to main complete, \$11.81 each; four lead service connections, 8 feet long, with corporations and stop cocks connected to main, complete, \$6.61 each; two 6-inch valves, each in place, complete, \$15; one hydrant, in place complete, \$42.51; ten Buffalo service boxes in place, complete, \$1 each; two valve manholes, in place, complete, \$25 each; two 6-inch T's, \$4.20 each; two 6-inch plugs, 80 cents each.—Hubert A. Stevens, City Engineer.

**Mt. Carmel, Ill.**—Contract for vitrified brick paving was let to Samuel Monroe & Son, Portsmouth, O., for \$13,477.81.—Guy W. Courier, City Engineer.

**Moline, Ill.**—J. S. Fargo was awarded the contract by the Garbage Commission for the disposal of the city garbage for one year at \$125 per month.

**Ottawa, Ill.**—To the Joliet Bridge and Iron Company was awarded the contract for building the new hundred foot span iron bridge across Indian creek, by the Bridge Committee of the Board of Supervisors; the cost is \$1,598, and concrete work, of which there will be 162 yards in the substructure, will cost \$6.50 per yard. The bridge will span historic Indian creek at a point near Earlville, in Earl Township.

**Danville, Ind.**—The contract for constructing the Ewing Road in Clay Township has been awarded to W. H. Elrad, of Green-castle, at \$4,985.—William H. Nichols, County Auditor.

**Fort Wayne, Ind.**—The Board of Works has let eleven cement sidewalk contracts. The bids and the awards were as follows: Walks on the east side of Barr, Berry to Superior—Moellering Construction Company, \$1.23 a running foot; both sides Lafayette, Esmond to Wiebke—Moellering Construction Company, 73 cents; both sides Hanna, from Pontiac south, O. F. Menefee, 61 2-5 cents; north side of Woodland, George Wilhelm, 75 4-5 cents; both sides Indiana, Cottage to Dayton, Derheimer & Co., 67 1-3 cents; both sides Packard, Beaver to Broadway, George Wilhelm, 61 cents; grading Boltz street and walks on both sides, Derheimer & Co., \$1.52; grading Kinnaird avenue and walks on south side of street, J. B. Grosjean & Co., 17 cents for grading and 58 cents for walks; grading Sinclair street, from St. Mary's to Leora, and walks on north side, C. S. Bash, 19 cents for grading and 49 cents for walks; grading Third from Franklin west and walks on south side, C. S. Bash, 19 cents for grading and 49 cents for walks; grading

first alley north of Huffman from Short to Hench, George Wilhelm, 16 cents.

**Jeffersonville, Ind.**—G. W. Palmer & Co., of Logansport, has been awarded the contract for paving East Seventh street with vitrified brick, about 2,809 linear feet, at \$24,552.—Victor W. Lyon, City Engineer.

**Lawrenceburg, Ind.**—The contract for paving 12,084 feet of road in Lawrenceburg Township has been awarded to F. J. Nowlin & Sons, of Guilford, at \$9,462.—William S. Fagaly, County Auditor.

**Michigan City, Ind.**—The Chicago, South Bend and Northern Indiana Electric Railway has let a contract for a new concrete bridge on its line at Waterford to the Lafayette Bridge Company, and it is expected that work on the construction of the bridge will begin soon. The building will not interfere with traffic over the line.

**Monroeville, Ind.**—Architect H. W. Meyer, Fort Wayne, let general contract to Henry Hockmeyer, Fort Wayne, for a one-story, four-room school building for R. J. Mauray, Trustee.

**New Haven, Ind.**—Architect H. W. Meyer, Fort Wayne, let general contract to Mr. Bower, New Haven, for a one-story, four-room school house for D. B. Nail, Trustee.

**Peru, Ind.**—Contracts for constructing gravel roads were let to G. W. Emery, Kokomo, Ind. (6), Steinman & Son, Peru (1), and D. E. Charters, Peru (1).—Charles Griswold, Auditor Miami County.

**South Bend, Ind.**—Winkler Brothers were awarded the contract for a hose wagon for the No. 10 hose house at Milton and Michigan streets, which is nearing completion, the contract price being \$940. The other bids were: Studebaker Brothers Manufacturing Company, \$1,060; South Bend Spring Wagon and Carriage Company, \$1,065. The wagon will be equipped with rubber tires, ball bearings and with patent brakes and will be finely equipped in every particular.

**Vincennes, Ind.**—Bids were opened by the Board of Works for the improvement of Wabash avenue, from Fairground avenue to Upper Eleventh street, and the contract was let to Foulkes, Forbes & Co., of Terre Haute, whose bid was 11 cents for sidewalk and 43 cents for curbing; one other bid was submitted by J. P. Marsh, 11 cents for sidewalk and 44 cents for curbing.

**Ames, Ia.**—The following bids were opened by the Board of Trustees of Iowa College for the construction of a reinforced concrete surface reservoir of 140,000 gallons' capacity: Des Moines Bridge and Iron Company, Des Moines, Iowa, \$3,400; Cook Construction Company, Des Moines, \$3,077 (awarded contract); Bartlett & Cling, Cedar Rapids, Iowa, \$4,408; Turner Roland Company, Des Moines, \$4,000.—A. Marston, College Engineer.

**Villisca, Ia.**—Smith & Son, Indianola, Ia., have been awarded contract for construction of a sewer consisting of 2,610 feet of 10-inch and 1,120 feet of 8-inch pipe.

**Coffeyville, Kan.**—Contract for thirty blocks of paving was let to John McGuire, Kansas City, Mo., for \$76,867.16, and V. E. Mitchell, Leavenworth, Kan., secured the contract for curbing and guttering at his bid of \$11,939.87.—Rosa Bell, City Clerk.

**Topeka, Kan.**—Hoskins & Ramsey, city, were awarded the contract for grading, paving and curbing ten blocks of new pavement and repaving on present concrete foundation thirteen blocks.—C. B. Burge, City Clerk.

**Wichita, Kan.**—Contract for the construction of a reinforced concrete bridge across the Wichita drainage canal, at Douglas avenue, was let to the Canton Bridge Company, at \$9,474.—R. N. Dorr, City Clerk.

**Winfield, Kan.**—The Topeka Bridge and Iron Company was given the contract by the County Commissioners of building the new concrete arch bridge over the Arkansas River at Arkansas City to cost \$20,000; it is 550 feet long with nine arches, the middle one of which is sixty-six feet.

**Lawrence, Mass.**—Phillip Holland has the general contract for a convent for the St. Patrick's Church Society.

**Westfield, Mass.**—The contract for street sprinkling was awarded on April 15 by the Selectmen to Reuben W. Humphrey, at \$2,100.

**Cadillac, Mich.**—The Board of Public Works awarded contract to C. J. Carpenter, Grand Rapids, Mich., for paving North Mitchell street, with Metropolitan brick.

**Detroit, Mich.**—Contracts have been let as follows: Public bath house, to Otto Misch, at \$19,200; police station for the eastern district, to Otto Misch, at \$13,596, and John F. Jones, plumbing and heating, \$2,733.—Louis Kamper, Architect.

**Grand Rapids, Mich.**—The Board of Public Works has awarded contracts for \$80,000 worth of new paving in different parts of the city. The bids, as awarded, were: Paving South Division street, from Fifth avenue to the P. M. tracks, with brick, engineer's estimate, \$42,000, awarded to Thomas G. McDermott for \$41,893; paving East Bridge street, from Lafayette and Grand avenue, with Metro-

politan block, engineer's estimate, \$33,150, awarded to Klute & Vanderveen for \$32,000; paving Morris avenue, from Wealthy avenue to Cherry street, with macadam, engineer's estimate, \$7,680, awarded to Klute & Vanderveen for \$6,900.

The Board decided to reject all bids received for paving North Lafayette street and to ask the Council to correct the record in substantiation of this action. This rejection was caused by the Engineer feeling unwarranted in recommending the class of material which was to be used in the improvement work until after a test had been made upon some other street intersection; the Board concurred in the opinion and the Lafayette street work will be held up indefinitely.

Bids for the South Front street sewer were received from Charles J. Carpenter, Grand Rapids, \$92,335.80; Albert Prange, Grand Rapids, \$117,144; Appleyard-Johnson Company, Grand Rapids, \$112,005. The items of the low bidder to whom the contract was awarded were: Lump sum, \$80,000; 1,178 cubic yards excavation, \$2.50; 390 cubic yards concrete, \$11; 16,500 pounds steel, 4 cents; item (g), \$1,100.—L. W. Anderson, City Engineer.

**West Branch, Mich.**—The contract for constructing water works has been awarded to T. C. Brooks' Sons of Jackson.—P. D. Sabin, City Clerk.

**Sedalia, Mo.**—Contract for reconstructing Third street with brick was let to John Hyatt.—C. E. Baker, City Clerk.

**Grand Island, Neb.**—Contract for the construction of wooden, metal and cement bridges for the ensuing year was let to Louis Schmidt, city.—G. H. Poell, Clerk Hall County.

**Camden, N. J.**—The Street Committee of Council has awarded contract for paving Federal street, from Cooper's Creek to Marlton avenue, with Belgian block to B. F. Sweeten & Son, and from Marlton avenue to Twenty-seventh street with sheet asphalt to the Filbert Construction Company.

**Long Branch, N. J.**—A contract was awarded William Mears, of the Borough of Rumson, for the construction of a new macadam road from the Sea Bright drawbridge through the Borough of Rumson, a distance of about one mile, at \$8,613; there was one other bid for the work, C. E. Humphrey & Company, of Hackensack, \$8,950.22; the County will build the road under the State aid law 16 feet in width, the Borough of Rumson paying 10 per cent. of the cost; the borough will also pay the entire cost of gravel shoulders on the macadam road the full width of the roadbed, varying from 30 to 60 feet in width.

Council at a recent meeting decided to purchase the following hose, coats and boots: From the Gutta-percha Rubber Company, Rescue 2½ hose, 500 feet, at 75 cents; N. J. Car and Spring, A 1 Brand & Rubber Company, 500 feet, at 80 cents; Fabric Fire Hose Company, Dry cotton hose, 500 feet, at 80 cents; Cornelius Callahan Company, Adriatic, 500 feet, at 85 cents; B. F. Goodrich Company, Chieftain brand, 500 feet, at 80 cents; C. C. C. Hose Company, Independence, 500 feet, at 80 cents; Joseph Goldstein, 80 pairs boots, Barrigan brand, each \$3.93; Jacob Steinbach, 20 drill rubber coats, each \$3.90; Long Branch Shoe Company, 20 fire rubber coats, at \$4; C. C. C. Fire Hose Company, 20 fire rubber coats at \$4, 1 white fire coat, \$7.50; R. B. Storm, 20 rubber coats, with inside rubber sleeve, \$4.35; Larkin Manufacturing Company, 300 feet Goodrich chemical hose, 1 inch, 34 cents per foot.

**New Brunswick, N. J.**—Freeholder Bunting received bids for the erection of a steel and concrete bridge on the River road near Cedar Creek Lane, in Piscataway township; the bid of Joseph Kelly, of New Market, \$433, was low, and the contract will probably be awarded him. Other bids were as follows: John McGovern, \$664; Middlesex Contracting Company, \$475; Abram Jelin, \$645; Schwiers & Sutton, \$837; Magnus Johnson, \$609.

**North Plainfield, N. J.**—Council has voted to frame a contract with the New York and New Jersey Telephone Company to maintain the borough fire alarm system at the rate of \$275 a year; the proposition was submitted through Mayor Townsend and the rate includes the entire cost of keeping the North Plainfield fire alarm system in repair, both as far as wires are concerned and in fire headquarters; the company to supply material for repairs; it has been the custom of the Borough's Mayor to appoint a borough electrician, who was paid \$175 a year to keep the wire system in repair and purchase the material; in addition, the telephone company was paid \$100 yearly for electricity to maintain the system.

**Phillipsburg, N. J.**—The contract for constructing the Lopatcong stone road, about 13,688 feet in length, has been awarded by the Board of Chosen Freeholders to the Milan Tighe Construction Company, of Easton, Pa., for \$16,849.46.—Jos. R. Thatcher, Director.

**Salem, N. J.**—The Freeholders of Salem

County have again failed to decide to whom to award the contract for patching up the old Court House. Arnot O. Mangan, at \$14,643, was low bidder on the first call, the others being Joseph H. Bell and Robert Drandiff, \$15,775, and Benjamin F. Darlington, \$15,933.48; the committee at the time recommended that the contract be awarded to Bell, but the recommendation was rejected and new bids asked for. New bids were: Mangan, \$11,948; Darlington, \$12,875 for concrete walls, \$12,945 painted walls; Bell and Drandiff, \$12,828 concrete walls, \$12,728 painted walls. Mangan's bid was for either concrete or paint. The question was raised as to whether the Board could award the contract to any one but the lowest bidder, and pending a legal opinion on this point the motion was laid over till the May meeting.

**Ft. Ontario, N. Y.**—A. Paine & Son, Oswego, N. Y., have the contract, at \$1,048, for the construction of a macadam road, brick gutters, etc.

**New York, N. Y.**—Henry E. Fox, 601 South Third street, Brooklyn, was the lowest bidder, at \$22,938.86, for laying water mains in Eastern boulevard and Pelham Bay Park; also for laying water mains in Sixty-fourth, Seventieth and exterior streets, under the East River to Blackwell's Island and on Blackwell's Island, his bid being \$33,267.61.

**Oswego, N. Y.**—The Department of Water has directed the City Attorney to prepare contracts for the pipes and specials and for submarine work and the pipe laying for the lake water system. Charles Millar & Sons Company of Utica will receive the contract for cast iron pipes and specials. The company's bid, which was \$22.90 per ton for pipe and 2½ cents per pound for specials, was identical with the bid of the United States Cast Iron Pipe Company. The contract for submarine work goes to A. Q. Thatcher & Co., of Toledo, whose detailed bids total \$79,835.42, which is \$3,747.52 lower than the estimated cost of the work. The pipe laying goes to J. A. Culkin & Co., a local firm, whose bid was \$14,691.62.

Eight bids for trenching and laying the new mains were received. Lawrence Schultz of Fredonia being low bidder and J. A. Culkin & Co. next; the Schultz bid, which was for between \$10,000 and \$11,000, was withdrawn, leaving J. A. Culkin & Co. the lowest estimate of the cost; the original estimate of this work was \$17,000. The other bidders for pipe laying were Peter Mullin of Manuka, Pa., the Baum Construction Company of Stamford, W. T. O'Connor of Syracuse, H. M. Calhoun of Philadelphia, Pa., and J. H. Clement & Son of Schenectady. The awarding of these contracts disposes of over \$160,000 of the \$270,000 allowed for the lake water system.

**Port Chester, N. Y.**—The following bids were received by the city for paving (A) South Main street, (B) Highland, Willett and Locust avenues: Warren Brothers Company, (A) \$41,666 with bitulithic, \$44,886 with concrete; (B) \$39,147; Standard Bitulithic Company (A) \$44,334; (B) \$41,405.

The J. O. Merritt Contracting Company was awarded the contract on April 20 for paving Horton avenue at \$8,120. Frank E. Murray bid \$8,247.

**Rochester, N. Y.**—The Board of Contract and Supply has awarded the contract for an automobile to be used by Commissioner Owen to the United States Automobile Company for \$1,500.

Other contracts were awarded as follows: Two Hart turret pipes for Fire Department, M. H. Hart Company, \$350 each; South Goodman street cleaning, section 1, John H. Wardell, \$8 a week; South Goodman street, section 2, John Stubbe, \$11 a week; Henrietta street cleaning, John Stubbe, \$10 a week.

**Rye, N. Y.**—Richard Parrott, Newburgh, was low bidder for erecting dock of spruce piling for the village; cost, \$4,600.—Charles S. Towle, 5 East Forty-second street, New York City, Village Engineer.

**Durham, N. C.**—Rigsbee & Dickson, of Durham, have been awarded the contract by the city for grading various streets at about \$6,000.

**Newbern, N. C.**—A contract for which bids were received March 11 has been awarded to the Georgia Engineering Company of Augusta, Ga. The work consisted of 14,000 square yards of brick paving on a 4-inch concrete base, with 2-inch sand cushion. The price bid was \$2.22, including excavation. The contract for resetting old curbing went to W. F. Bower, Augusta, Ga., for 5 cents a foot, new straight curbing 35 cents, circular, 47 cents. The sidewalk work, specifications cement 1 inch, concrete 3 inches, went to the same contractor for 12½ cents per square foot, driveways 19 cents; sidewalk and curbing contracts were for all to be laid during 1908.—F. L. Patterson, Secretary, Public Works Board.

**Harvey, N. D.**—Contracts for construction of sidewalks and crossings was let to Nelson Bros., Minneapolis, Minn.—W. W. Brant, City Auditor.

**Enderlin, N. D.**—Contract for constructing cement sidewalks was let to T. T. Stuverud, Elbow Lake, Minn.—E. T. Danielson, City Auditor.

**Alliance, O.**—J. C. Devine has received the contract for street paving in East Palestine at \$6,000.

**Columbus, O.**—The County Commissioners opened twenty-five bids for the construction of the new Franklin County Tuberculosis Hospital, Ewers Brothers being the successful bidders at \$11,115.

**Corlett, O.**—Prosser and Wonn have just received contract for constructing five miles of sewer in Corlett near Cleveland; the drain runs from 12 to 30 inches in diameter.

**Dayton, O.**—Contracts for paving Miamisburg and Centerville pike, nearly five miles, with macadam at an approximate cost of \$25,000, were let by the County Commissioners to Peter O'Maley and E. M. Gebhart & Co., who each bid \$1.53 per yard for stone to be used in the paving and 24 cents per square yard for excavating; to dispose of the tie bids the two contractors agreed to perform the work jointly.

James Manuel was awarded the contract for furnishing the stone at the Washington township end of the pike at his bid of \$1.19.

The County Commissioners have let the contemplated improvements as follows: For wrecking the administration building at the Montgomery County Infirmary, to Henry Unverferth, for \$1,293.

To construct concrete substructure of bridge No. 112, Harrison township, to J. H. Morrison at \$4.50 per cubic yard.

For furnishing the labor and materials necessary to construct the substructure of bridge No. 141, Madison township, to D. C. Estabrook at \$5.20 per cubic yard.

**North Baltimore, O.**—Contracts for constructing sections 3 and 4 of a road in Henry township were let to the Ryan Stone Company and C. E. Edgington. Sections Nos. 1 and 6 will not be readvertised.—W. B. Henning, Clerk Henry Township.

**Norwalk, O.**—Penny & Corron of Lorain have been awarded a big contract calling for the construction of a mile and one-half of sewer at a cost of \$12,000.

**Springfield, O.**—Formal action has been taken by the Board of Public Service awarding Gould and Wright the contract for laying a sub-drain and outlet for the high-level interceptor, beginning at Walter street and running west to an open ditch. The firm agreed to lay a drain of 12-inch pipe for \$1.30 and \$2 a cubic yard for rock excavation; already the men have started to work on it; P. J. Wright and W. H. Sieverling signed up the contract.

**Westerville, O.**—Architect Frank L. Packard, Columbus, let general contract to Frank Karg, city, for a two-story school building for the Board of Education, at \$16,000.

**Youngstown, O.**—James Kane has been awarded contracts for sewers in Vienna avenue, Beaver avenue, Pearl street and Seneca avenues at his bid of \$12,000; 30-inch tile will be used for the storm sewer instead of brick.

The contract for furnishing 500 tons of cast iron water pipe and 15 tons specials has been awarded to the Massillon Iron and Steel Company, of Massillon, at \$21.60 per net ton.

**Zanesville, O.**—V. S. Gregg has the contract for paving Ninth street at \$8,300.

**Okemah, Okla.**—Contract for constructing cement concrete sidewalks was let to J. W. Fielder, Ardmore.—S. L. O'Brannon, Town Recorder and Town Clerk.

**Abington, Pa.**—Architects Heacock & Hanson, Philadelphia, awarded contract to E. D. Lever, Abington, for a two-story high school building for the township School Board, at \$50,000.

**Allentown, Pa.**—The Water Board has awarded contracts for supplies as follows: Valves and fire hydrants, Rensselaer Manufacturing Company, Troy, N. Y. represented by Fred S. Bates; corporation cocks, H. Mueller Manufacturing Company, Decatur, Ill., represented by W. F. McCarthy; cotton waste, W. H. Taylor & Co., Allentown; hauling coal and ashes, O. S. Hoch; painting fire hydrants, Phillip Gallagher. The contract for forty water meters was divided between the Pittsburgh, Neptune and Thompson companies.

The County Commissioners have awarded the contract for erection of the new county bridge across the Lehigh Valley tracks at Emerald to Horn & Neff of Slatington, for \$6,300; other bidders were: Nelson & Meredith Company, Chambersburg, \$8,739; George W. Shoemaker & Co., \$6,640; Ackerman & Co., Allentown, \$6,370; Owego (N. Y.) Bridge Company, \$6,800; McDermott & Co., Allentown, \$10,200; Jacob F. Sechler & Co., Jacksonville, \$6,700; R. T. & C. D. Steward Contracting Company, Easton, \$6,790.

**Altoona, Pa.**—John S. Vipond, city, received the contract for the construction of new State road in Westmoreland County, starting at the borough line of Windber and extending for two and one-half miles to Ashton.

**Avalon, Pa.**—Contracts aggregating \$45,640

were let by Avalon Borough Council for the paving of five streets; A. Alston & Son, Northside, were the low bidders.

**Erie, Pa.**—The McKay Heating and Plumbing Company, city, has been awarded contract for new heating and ventilating system for the high school, at \$16,850, and will be associated with the Foster E. Glidden Engineering Company, of Buffalo, N. Y., in the work.

**Hazeldell, Pa.**—J. E. Smith and Fred Weingartner have contract for grading North street, between Wampum avenue and Orchard street, and Orchard street, between North and Bridge streets.—R. K. Lape, Secretary Borough Council.

**Hazleton, Pa.**—The City School Board has awarded the contract for heating and ventilating the Church street building to the Hazleton Machinery and Supply Co.; the contract, however, is conditioned upon the acceptance of the contracts for remodeling the building, which will be considered at a special meeting. The bids were as follows: Mayer Engineering Company, \$6,800; Lattimer Machine and Foundry Company, \$6,850; E. G. Carpenter & Co., \$6,936; Hazleton Machinery and Supply Co., \$5,800; Gunster Bros., \$6,994.

**McKeesport, Pa.**—W. K. Herbert, a former City Councilman, was awarded the contract by the Board of Health to remodel and repair the old garbage furnace at Thirteenth avenue. Three bids were received: From R. L. Raynor, \$3,000; W. K. Herbert, \$2,800, and John Caves, \$2,800; the bid of Caves was thrown out because it was not accompanied by a bond. All the bidders submitted plans showing the repairs they proposed to make. Mr. Herbert also agreed to keep one of the chambers going for the consumption of garbage while the repairs are being made.

**Philadelphia, Pa.**—The Pennsylvania Railroad Company, A. C. Shand, Chief Engineer, Philadelphia, will construct two piers between Queen street and Washington avenue. Work on piers will begin July 1, and it is expected that both structures will be completed by the following spring. The pier on Dock street will be 200x175x168 feet, and cost about \$500,000.

Eight new elevators will be constructed in the City Hall, and Chief McLaughlin, of the Electrical Bureau, has submitted plans to Director of Public Safety Clay.

**Phillipsburg, Pa.**—King & Phillips, Clearfield, has been awarded the contract to construct a new State road from Cold Stream bridge, on the borders of Phillipsburg, Center County, to One Mile Run, a distance of 5,470 feet.

**Plymouth, Pa.**—Bids for the erection of a new home for Fire Company No. 1 were opened as follows: Reynolds & Long, \$11,400; J. D. Cooper, \$10,997; Clark Bros., \$12,050; C. C. Ransom, \$11,000; Kehoe & Mowery, Wilkes-Barre, \$12,500; the contract was awarded to J. D. Cooper, he being the lowest bidder; Charles Wilson will superintend the construction.

**Reading, Pa.**—Contract for building a reinforced concrete arch bridge in Washington Township was let to Willauer & Co., Pottstown.—A. L. Rhodes, County Comptroller.

**Tarentum, Pa.**—All bids for a garbage furnace were rejected on April 13 by the Council.

**Washington, Pa.**—The County Commissioners received bids for the construction of five sections of improved roads, under the Flint law of 1895; the bids are, according to Road Engineer William Wylie, the lowest ever received for this kind of work in the county. The following is a brief description of the roads and the bidders on each: The Laboratory-Lone Pine road, extending from the end of the present improved road to Lone Pine, 3.65 miles; bidders, N. C. Hunter, Hootman Bros., Nelson Meredith Company, Hastings & Piper, Advance Sand & Construction Company, and the Hallam Construction Company. The Claysville-Prosperity road from Claysville south two miles; bidders, Hallam Construction Company, Advance Sand & Construction Company, Nelson Meredith Company and N. C. Hunter. Prosperity-Dunns Station road, from Prosperity east two miles; bidders, Nelson Meredith Company, Hallam Construction Company, L. G. Moore, N. C. Hunter and George F. Eagan. McDonald-Venice road, one mile; bidders, N. C. Hunter, Advance Sand & Construction Company. Washington-Meadowlands road, from Washington to McClaines bridge; bidders, Hallam Construction Company, Advance Sand & Construction Company, N. C. Hunter and Nelson Meredith Company.

**York, Pa.**—Calvin A. Boyer was given the contract by the board of school control to build the school building, at corner West and West King streets. Contract price, \$43,531.

**Ft. Meade, S. D.**—The following bids were received by Capt. L. C. Scherer, Q. M., for road work, etc.: Wm. M. Sabin, Jr., Sturgis, \$18,777; Grams & Schummer, Sturgis, \$19,600; N. Farlow, Vale, \$17,000.

**Salt Lake City, Utah.**—The Campbell

Building Company, 225 Dooly Block, Salt Lake City, has been awarded the contract by the Board of Public Works for the construction of intercepting and gravity sewers with a wood stave pipe 4,800 feet long, at \$16,000. Louis C. Kelsey is City Engineer.

**Olympia, Wash.**—The State Highway Board has awarded three contracts for macadam roads in Eastern Washington. The Olympia firm of Ruth & Hartman secured two of the contracts and the county of Spokane the third. The contractors bid as follows: State aid road No. 8, or Bathis road, near Oakesdale, Whitman County, contract awarded to Ruth & Hartman. Estimated cost \$5,875; bidders—Horton & Bodine, Colfax, \$5,875; Ruth & Hartman, Olympia, \$5,875.

State aid road No. 9, or Eskridge road, near Pullman, Whitman county, awarded to Ruth & Hartman; estimated cost, \$6,279.10. Bidders—Anderson & Boyd, Pullman, \$6,000; Horton & Bodine, Colfax, \$6,279; Ruth & Hartman, Olympia, \$5,513.

State aid road No. 11, or Bigelow gulch road, near Spokane, contract awarded to commissioners of Spokane County for \$13,600; estimated cost, \$14,591. No other bid received.

**Huntington, W. Va.**—Paving contracts, aggregating \$140,533, have been let by Council, all work to be under way by May 1, and completed by November 1; the work to be performed, the successful bidders, and prices follow: Third avenue, Twenty-fourth street to Guyandotte, Luck Construction Company, Carlisle combined concrete curb and gutter, \$56,440; Third avenue, Seventh street, West, to Johnson's lane, Athens brick, Harrison & Dean, combined concrete curb and gutter, \$32,994; Sixth avenue, Eighth street west to First, Wright & Scanlon, Athens brick, combined concrete curb and gutter, \$29,352; Sixth avenue, Sixteenth and Seventeenth streets, Wright & Scanlon, 30 feet in width, Athens brick, \$5,591; Fifth avenue, Eleventh and Thirteenth streets, Wright & Scanlon, Mack block, \$9,890; Twentieth street, Third avenue to B. & O. Railway, Harrison & Dean, Athens brick, \$2,215; Twenty-first street, Third avenue to B. & O. Railway, Harrison & Dean, Athens brick, 20 feet width, \$1,432; Twenty-second street, Third avenue to B. & O. Railway, Harrison & Dean, Athens brick, 20 feet width, \$1,432; alley Fourth to Fifth avenues, Ninth to Tenth streets, Harrison & Dean, Athens brick, \$1,187.

**Wheeling, W. Va.**—The Water Board at a special meeting awarded the contract for furnishing a new steam condenser for the large pump at the works to the Epping-Carpenter Company, of Pittsburgh, Pa., at its bid of \$9,562.20, installed, with the station restored to the same condition as it was prior to beginning the work. The International Pump Company, through its Henry R. Worthington Company branch, presented a bid of \$8,752.50 for the same capacity condenser, but failed to include installation. The contract was awarded Epping-Carpenter under conditions in regard to amount of steam to be used to cause the condensation required to produce certain air vacuum deemed necessary to get the full efficiency of the engine at its normal working condition.

**Jefferson, Wis.**—Peter Adler, Sr., was awarded contract for building all cement walks and crossings for the year 1908.—John J. Spangler, City Clerk.

**Racine, Wis.**—James Cape & Sons have the contract for paving Wisconsin and Hamilton streets.

**Notre Dame De Grace, Que., Can.**—The Council has awarded the contract for the construction of two sections of the sewerage system to Henault & Hefferman, at \$70,000.

## PATENT CLAIMS

883,224. **Rotary Pump.** Joseph F. Neville, Woodruff, Utah. Serial No. 352,758.

A rotary pump comprising a cylinder, a rotary piston concentrically mounted therein, said piston consisting of a pair of separable semi-circular sections having their meeting faces grooved to form a transverse bearing opening extending through the piston, a piston blade slidably mounted in said bearing opening and provided at its longitudinal center with a longitudinal slot, a transverse bolt-opening formed in the sections at right angles to the plane of movement of the blade and in line with the slot in the latter, a connecting bolt entered into said bolt-opening and through said slot for detachably connecting the piston sections and holding the blade against escape from the piston, yieldable packing strips applied to the active edges of the sliding blades, a movable resistance block arranged to bear at one side of the piston and means for adjusting the block to take up wear on the piston.

883,262. **Gas Street-Light Extinguisher.** Sterling Wells, Schaller, Iowa. Serial No. 382,337.

An apparatus of the class described, comprising in combination with the lamp gas-supply pipe, a casing having a nipple threaded

into said supply pipe and provided with a gas passage and a valve seat, a valve for co-operating with said valve seat, a valve stem projecting into said gas passage of the nipple, a lever fulcrumed in said casing and connected with said valve stem, means controlled by gas pressure and connected with said lever for maintaining the valve open while gas is passing through under normal pressure, means for rocking said lever to close said valve when the gas pressure falls below a predetermined amount, said casing having an outlet aperture and a threaded cock receiving portion merging therewith, and a stop-cock connected in said cock receiving portion.

883,467. Water-Purifying System for Swimming-tanks. Garrett D. Mitchell, Chelsea, Mass., assignor to the Swimming Pool Filtration Company, a Corporation of Massachusetts. Serial No. 249,355.

The combination with a swimming tank; of a filter adjacent thereto; a pipe leading from the bottom of the tank and having an outlet above the top of the filter; a pipe leading from a point below the filter to the top of the tank; a pump to convey filtered water to the tank through said pipe; a heating device adjacent to said pipe; a by-pass between the bottom of the tank and the pipe which leads from below the filter; and means for controlling the pipes whereby water can be circulated and heated without being passed through the filter.

883,821. Excavating Machine. Frank J. Monahan, Joliet, Ill. Serial No. 336,822.

In an excavating machine, the combination with a main frame, of an auxiliary frame, a slide box for said auxiliary frame pivotally supported upon said main frame, and excavating elements carried by said auxiliary frame.

883,903. Water Cistern with Purifier. Wilhelm J. Nuss, Cologne-Lindenthal, Germany. Serial No. 400,886.

The combination with a water cistern, of a purifier which is located below the cistern and forms a support therefor, an admission pipe extending through the cistern into the purifier and of means of permitting communication between the cistern and the purifier, said means being capable of closure.

883,983. Concrete Mixing-Machine. Ralph T. Sollitt, Chicago, Ill. Serial No. 183,079.

A concrete-mixing machine, comprising an inclined trough on which the materials to be mixed are supported during the elevating and mixing operation, means for elevating and mixing the materials in said said trough, means at opposite sides of said elevating means for supplying thereto materials to be mixed and means for actuating said supplying means alternately.

884,068. Ditching and Grading Machine. Morton G. Bunnell, Porter, Ind., assignor to Austin Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Serial No. 386,714.

In a ditching and grading machine, a plow for each side of the machine, an elevating and conveying apparatus adjustable to receive the soil from either plow and discharge the same from either side of the machine, means for adjusting said apparatus to receive the soil from either plow, and means for raising and lowering said plows independently of each other.

884,396. Road Grader. W'Infield S. Liveness, Kansas City, Mo. assignor to Smith & Sons Manufacturing Company, Kansas City, Mo. Serial No. 302,409.

In a machine of the character described, a frame, an axle adjustably mounted therein, a compound lever for adjusting said axle in a horizontal plane, consisting of a secondary member, pivoted to the frame, jaws on said secondary member engaging the axle, and a primary member fulcrumed upon the frame and arranged to operate the secondary member.

884,406. Sewage Ejector. William McClintock, New York, N. Y. Serial No. 373,161.

In a sewage ejector provided with means for automatically admitting fluid under pressure, said means being operated by liquid from the upper part of the tank, the tank being provided with an upper extension of smaller diameter than the lower portion and with inlet and outlet for sewage connected with the lower portion, the parts being combined and arranged substantially as set forth.

## MUNICIPAL JOURNAL AND ENGINEER

### TRADE NOTES

Cast Iron Pipe.—Chicago: Amount of tonnage developing from small orders is good. Quotations: 4-inch, \$27; 6 to 12-inch, \$26; 16-inch and up \$25. Birmingham: As the season advances, the prospects for business are brighter. More satisfactory terms of payment are being obtained. Quotations: 4 to 6-inch, \$23; 8 to 12-inch, \$22; over 12-inch, average, \$21. These quotations are probably shaded on large contracts. New York: Some lettings have been made for season's supply from Pennsylvania points. Quotations: carload lots of 6-inch, \$24.5 to \$25.

Lead.—Prices continue firm, the American Smelting and Refining Company being the cheapest seller at 4c, New York. Lead can be had in St. Louis for 3.85c.

Electric Company Receivership.—The Consumers' Electrical Company, of New Orleans, La., with capital stock, bonds and other obligations aggregating about \$2,500,000, was placed in receivership, Samuel Insull, President of the Commonwealth Edison Co., of Chicago, being named receiver. The receivership was asked for by the National Conduit Cable Company, of New York City, holder of \$2,080,000 mortgage bonds of the Consumers' Company. The Consumers' Electric Company is one of two companies supplying electric light and power in New Orleans.

Recording Instruments.—Prof. William H. Bristol has acquired a majority interest in the Bristol Co., Waterbury, Conn., which will hereafter conduct the business hitherto carried on in the name of Wm. H. Bristol. The company will now, it is claimed, manufacture the most complete line of recording instruments of any company in the world, for pressure, temperature, electricity and other purposes. Among the comparatively recent devices put on the market are the pyrometers and smoked chart recorders. Mr. Bristol promises to introduce to the trade at an early date, a long distance electric thermometer.

Street Railway Chart.—An instructive chart showing the relation of the Interborough-Metropolitan Co. to its various subsidiaries and the exact status of each has been prepared by Kountze Bros., 120 Broadway, New York City. This chart is made after a family tree, depicting the position and relation of each concern in the great traction consolidation to all of the other constituent and parent companies. The results achieved involved much independent investigation because official data relating to the Interborough-Metropolitan Company is lacking in many particulars through intervention of the courts and other causes. The chart presents a clear exposition of the complicated situation treated. From it, the mileage of the system appears to aggregate 857; the issued capital, \$397,884,692, the bonded indebtedness, \$266,722,788, and the annual fixed charges, \$23,851,587.

### Proposals

#### SEWAGE DISPOSAL WORKS

White Plains, N. Y.  
Sealed proposals, addressed to the Village Clerk of the Village of White Plains, N. Y., for constructing an addition to the present White Plains Sewage Disposal Works, under two different plans, will be received by the Board of Trustees of the Village of White Plains, N. Y., at the Corporation Rooms of said Village, until 8 p. m., of the fourth day of May 1908, when they will be opened.

The work under one plan consists of an enlargement of the present settling basins, the movement of pumps and pipes to a new location and the construction of a shed to cover the enlargement.

Under the second plan the work consists of the rearrangement of the present settling tanks and the construction of filter beds, south of the present works.

Proposals must be submitted, separately for each plan, on the bidding sheets as furnished by the Village, and be accompanied by a certified check for \$750 upon some reputable State or National Bank or Trust Company. The Board of Trustees reserves the right to reject any and all bids, or to accept the bid most favorable to the Village.

Plans may be seen and specifications secured at the office of the Village Engineer, Room 714, Realty Building, White Plains, N. Y.

By order of the Board of Trustees.

Dated April 13, 1908.  
JOHN J. BROWN,  
President.  
PETER PAULDING,  
Village Clerk.

(17-18)

#### PAVING SIDEWALKS, CURBING.

Paducah, Ky., April 16, 1908.  
The Board of Public Works will receive bids until 3 o'clock p. m., May 12, 1908, for the improvement of Broadway and Jefferson streets, from Ninth to Eleventh streets.

Bids will be received on sheet asphalt, brick paving block and Warren's Bitulithic paving, and the figures on each bid reported to the General Council for their selection of material. Approximate quantities on the two streets are as follows:

Paving, 10,320 square yards.  
Limestone curb (redressed and reset), 1,930 linear feet.  
Granite curbing (new), 2,300 linear feet.  
Granitoid gutter, 4,600 linear feet.  
Granitoid sidewalks, 33,530 square feet.

A certified check on a bank of the City of Paducah, Kentucky, payable to John J. Dorien, Treasurer of the City of Paducah, Kentucky, for \$500.00, must accompany each bid. Plans and specifications can be seen at the City Engineer's office on and after April 25.

For further information apply to  
L. A. WASHINGTON,  
City Engineer.

(17-18) STEAM HEATING PLANT

Port Gibson, Miss.  
The Board of Supervisors of Claiborne County, Mississippi, will receive and consider plans at meeting, May 4, to put a steam heating plant in the Court House and jail.

A. K. BRASHEAR,  
Clerk.

#### GRAVEL STREETS AND CEMENT WALKS

Connersville, Ind.  
Notice is hereby given that the City of Connersville, Indiana, will receive bids for 3,268 feet of gravel streets and 10,000 square feet of cement walks, at 7:30 o'clock p. m. Tuesday, May 5, 1908.

Certified check for \$200.

JACOB S. CLOUDS,  
City Clerk.

(17-18)

#### WANTS

CLERICAL and technical positions in all lines; positions in municipal and manufacturing; we can interest any ambitious man; write fully of experience; service confidential. Hapgoods, 305 Broadway, New York; or 1010 Hartford Bldg., Chicago.

## SPECIAL WATER WORKS NUMBER

The May 6 number of the *Municipal Journal and Engineer* will make a feature of articles dealing with Water Works matters. Statistics of hundreds of water works plants, now being collected, will be presented; also descriptions of pumping and purification plants, and other water works appliances and methods.



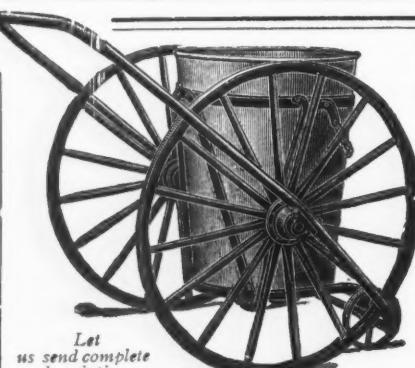
## A Good Money Maker

This portable Vacuum House-cleaning machine will earn from \$25 to \$50 per day—expenses about \$6.00. Latest and best method for cleaning carpets, rugs, upholstery, draperies, etc., without removal from the house. Sucks out the dust into tanks in the wagon. In big demand the year 'round for homes, churches, theatres, halls, stores, etc. A clean, legitimate, independent business, at good prices, netting from \$3,000 to \$5,000 per year to hustling men with about \$3,000 capital. Some customers are operating as many as four outfits. Exclusive territory with practically no competition or risk. We help you get the business. Descriptive literature to responsible parties with necessary capital.

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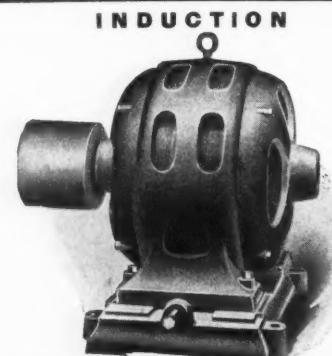
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